

2023

Amazon Sustainability Report



On the cover
The Baldy Mesa Solar and Storage Project (developed and operated by AES), located in Adelanto, California.

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Introduction




About Amazon

Amazon is a global company with approximately 1.5 million full- and part-time employees worldwide and operations in Africa, Asia-Pacific, Europe, Latin America, the Middle East, and North America.


At Amazon, we combine data and science with passion and invention. We set big goals and work backward to achieve them, such as The Climate Pledge, our goal to reach net-zero carbon emissions by 2040, 10 years ahead of the Paris Agreement. We apply that same tenacity to how we address some of the world's biggest environmental and societal challenges, striving to make every day better for our customers, employees, communities, and planet.




How to Navigate This Report

Look for these symbols throughout the report:

-  A link that directs you to a website
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About This Report

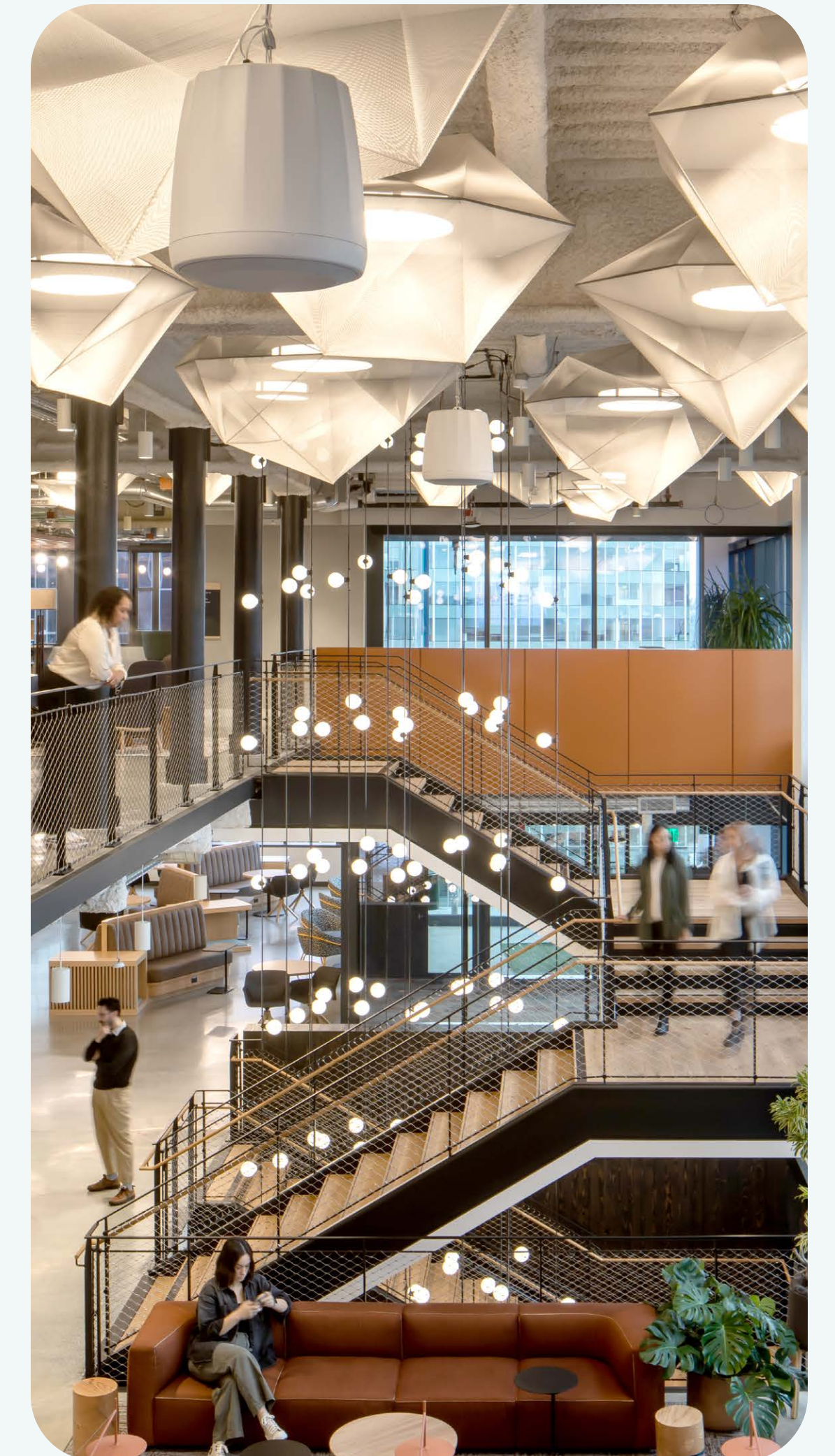
This is our sixth annual report detailing progress against our [goals](#)  and environmental, social, and governance topics. All financial figures are reported in U.S. dollars (\$), unless otherwise stated. The data within this report reflects progress from January 1 through December 31, 2023, unless otherwise indicated. This report includes information about many business units and subsidiaries including AWS, Devices, Fresh, Whole Foods Market, Amazon Private Brands, Twitch, MGM Studios, and Ring.

Our 2023 Sustainability Report is structured into three main categories: Environment, Value Chain, and People. In the [Environment](#)  section, we discuss scaling our work, partnering with others, and inventing new solutions to minimize our emissions, waste, and water use; increasing our use of carbon-free energy; and pioneering solutions to improve packaging, products, and the materials we use. In the [Value Chain](#)  section, we discuss our commitment to respect the human rights of people connected to our global business, managing a responsible supply chain, creating sustainable products and using more sustainable materials, advancing supplier diversity, and having a positive impact on the communities where we operate. In the [People](#)  section, we discuss our ambition to be Earth's best employer and the safest place to work in our industries, including our focus on creating positive employee experiences, prioritizing health and safety, and building inclusive experiences.

Framework Disclosures

In addition to this report, we share on our website our approach to sustainability governance and disclose our 2023 performance against reporting frameworks including the Sustainability Accounting Standards Board (SASB), the United Nations Sustainable Development Goals (SDGs), the Task Force on Climate-related Financial Disclosures (TCFD), and the United Nations Guiding Principles on Business and Human Rights (UNGPs).

Learn more in our [2023 Sustainability Reporting Framework Summary](#) 



Employees inside one of our newest office buildings in Bellevue, Washington.



A Letter from Our Chief Sustainability Officer

At Amazon, we are always looking for ways to move faster, deliver the best possible customer experience, and innovate. We regularly hear from our customers, corporate partners, and employees how much they care about sustainability and social responsibility. For a company as diverse as Amazon, embedding these values into all of our businesses, products, and services—as well as how we deliver for our customers—has been an incredible undertaking, with much of it taking place behind-the-scenes.

Progress is likely easiest to spot in our Stores business. Our customers let us know that their Amazon packages are now arriving at their doorsteps faster, with less packaging, and delivered by more electric delivery vehicles than ever before. By regionalizing our operations and transportation networks in the U.S., we can now deliver items faster and at lower costs. This also allows us to minimize or avoid extra packaging altogether, while reducing the distance a package has to travel, cutting back on the carbon emissions associated with deliveries.

We also know our customers look to Amazon to be a leader among our peers. On renewable energy, we set an ambitious goal to match 100% of the electricity consumed by our global operations with renewable energy by 2030, and we reached that goal in 2023—seven years early. As we look to the future, we are steadfast in our Climate Pledge commitment to be net-zero carbon across our operations by 2040. We will continue to lead and invest in creating carbon-free energy around the world at scale, including through solar, wind, nuclear, and other emerging energy technologies. Our progress toward a net-zero carbon business will not be linear, and each year as our various businesses grow and evolve, we will produce different results. These results will be influenced by significant changes to our business, investments in growth, and

meeting the needs of our customers. Through it all, we will remain steadfast as we invent, adapt, and will our way to meeting our commitment to The Climate Pledge.

We know that driving change means staying focused on bringing entire industries along with us. Over the past five years, we've done this by encouraging companies to join The Climate Pledge—and we're proud that over 500 have joined us and committed to be net-zero carbon 10 years ahead of the Paris Agreement. But we wanted to do more. Most recently, our sustainability team has been developing resources to share our expertise and help our suppliers build, measure, and act on their sustainability commitments. That's why we've launched the Amazon Sustainability Exchange, a free sustainability resource center that contains a number of Amazon's previously proprietary playbooks, templates, case studies, and science models, among other sustainability best practices.

Looking ahead, we know our customers look to us to be at the cutting edge of new and growing technologies and enable them for good. We're already deploying artificial intelligence (AI) in ways that benefit our customers directly, such as using it to right-size packaging and avoid waste. We're exploring a growing number of AI applications—whether it's monitoring and optimizing our energy use or helping combat deforestation in Brazil. We also see an opportunity to use AI to address sustainability challenges at an unprecedented scale, all while delivering new solutions for our customers. Much work remains, and we're excited that Amazon is uniquely positioned to figure out how AI can help us address climate change in a more efficient and responsible way.

Most importantly, we need to continue to invest in talent and hire employees who can lead on sustainability. We're proud

of the wide range of sustainability-focused career paths we offer at Amazon, including engineers, scientists, content creators, building architects, and more. And for those whose jobs aren't directly within a sustainability field, we offer upskilling programs and affinity groups where our employees can learn more and get involved. It's thanks to the thousands of professionals working behind-the-scenes across Amazon that we are able to bring all of this amazing work to life.

I'm proud of the work that's underway, and truly excited for what's to come.

With gratitude,

Kara Hurst
Chief Sustainability Officer



How We Work

Our Mission

To make customers' lives better and easier every day.

Our Business

We are committed to addressing sustainability at every stage of our value chain.

Our Operations

We offer products and services—both Amazon-branded and from many other brands and third-party sellers—in our Amazon stores, leveraging advanced transportation logistics to deliver globally. We also create entertainment content and, through AWS, provide the world's most widely adopted and comprehensive cloud offering.

Our Supply Chain

We procure materials, commodities, components, finished goods, and services from a complex supplier network. We engage suppliers globally to align our expectations for respecting human rights; maintaining safe, inclusive workplaces; and promoting sustainable practices.

Our Employees

The approximately 1.5 million people in Amazon's global workforce are the key behind our successes—from enabling global fulfillment to delivering on sustainability initiatives. To support them in advancing their own career goals, we offer competitive pay and benefits, upskilling and educational programs, and a workplace that promotes inclusion and diversity. Additionally, we use independent contractors and temporary personnel to supplement our workforce.

Our Communities

Amazon has a presence in communities around the world. We seek to be a good neighbor wherever we operate and to support local people and charitable organizations that meet on-the-ground needs. In particular, we leverage our scale, resources, and expertise to address issues where we can have the greatest impact—namely affordable housing, education, disaster relief, and food security.

Our Customers

We continually seek new and better ways to serve customers, offering lower prices, more convenient services, and a larger selection of more sustainable products. We also help customers advance their businesses and enable digital transformation through AWS, content development services, and advertising options. In addition, we support small businesses with access to Amazon's tools, resources, and network, helping them reach customers around the world.

Our Reporting Topics

We include a number of topics in our reporting. We view these topics as interconnected and recognize that our progress in one area can often help address challenges in another.

Carbon

Carbon-Free Energy

Packaging

Waste and Circularity

Water

Human Rights

Responsible Supply Chain

Sustainable Products and Materials

Supplier Diversity

Community Impact

Employee Experience

Health and Safety

Inclusive Experiences



Goals Summary

→ Making progress ✓ Achieved ○ Did not meet

Goal	2022 Progress	2023 Progress	Status
Carbon ↗			
Reach net-zero carbon emissions by 2040	70.74M metric tons CO ₂ e* 93.0 g CO ₂ e/\$GMS [†]	68.82M metric tons CO ₂ e 80.8 g CO ₂ e/\$GMS	→
Through The Climate Pledge, inspire and empower others to join us on a mission to reach net-zero carbon emissions by 2040	396 signatories	473 signatories	→
At least 100,000 electric delivery vans on the road by 2030, from Rivian and other manufacturers	2.6K+ electric delivery vans	19K+ electric delivery vans	→
Deploy 10,000 electric vehicles (EVs) in India by 2025	3.8K+ EVs deployed	7.2K+ EVs deployed	→
Carbon-Free Energy ↗			
Match 100% of the electricity consumed by our global operations with renewable energy by 2025—five years ahead of our original target of 2030	90% matched	100% matched	✓
Invest in wind and solar capacity equal to the energy used by all active Echo, Fire TV, and Ring devices worldwide by 2025 [‡]	100% capacity procured	Achieved in 2022	✓
Waste and Circularity ↗			
Reduce food waste by 50% across U.S. and Europe operations by 2030	82M meals donated globally	75% reduction in food waste intensity in Europe operations and 28% in U.S. operations compared to a 2021 baseline [§]	→
Water ↗			
AWS will be water positive by 2030	Goal set in 2022	41% progress toward meeting its water positive goal [#]	→
Packaging ↗			
Make Amazon device packaging 100% recyclable by 2023	Achieved for 79% of product launches	Achieved for 90% of product launches	○

Goal	2022 Progress	2023 Progress	Status
Employee Experience ↗			
Invest \$1.2 billion to upskill over 300,000 U.S. Amazon employees by 2025	110K employees upskilled**	358K+ employees upskilled	✓
Inclusive Experiences ↗			
Hire 100,000 U.S. military veterans and military spouses through 2024	78.5K veterans and spouses hired ^{††}	100K+ veterans and spouses hired ^{††}	✓
Conduct a racial equity audit to evaluate the impacts of our policies, programs, and practices on hourly operations employees	Goal set in 2022	On track to be completed in 2024	→
Hire at least 5,000 refugees in the U.S. by the end of 2024	Goal set in 2022	~18K refugees hired in the U.S.	✓
Provide training for 10,000 Ukrainians globally through the AWS program ITskills4U by 2024	Goal set in 2022	~16.5K Ukrainians received training	✓
Community Impact ↗			
Invest \$2 billion to create and preserve more than 20,000 affordable homes through 2025	\$1.6B committed and 11K homes created or preserved	\$1.8B committed and ~16K homes created or preserved	→
Distribute up to \$60 million in AWS cloud computing credits to support organizations promoting health equity globally by the end of 2024 ^{§§}	\$14M+ in cloud computing credits distributed	\$32M+ in cloud computing credits distributed	→
Help 29 million people globally grow their technical skills by providing free cloud computing skills training by 2025	13M people helped	21M people helped	→
Provide free artificial intelligence (AI) skills training to 2 million people globally by 2025	—	Goal set in 2023	→

* Carbon dioxide equivalent.

† Grams of carbon dioxide equivalent per dollar of gross merchandise sales.

‡ To understand what this goal should encompass, we model and measure the energy consumed by our devices in different types of use, then project their total average global annual electricity consumption.

§ Food waste intensity is a measure of food waste as a percentage of total food handled by weight.

Water positive means AWS will return more water to communities than it uses in its direct operations. A number below 100% indicates AWS is still working to meet the water positive goal.

** In 2022, we reported progress for the Career Choice program in the U.S. In 2023, we expanded our reporting to include all in-scope upskilling programs in the U.S.

†† Progress from July 2021 through December 2022.

‡‡ Goal achieved in January 2024. Progress from July 2021 through January 2024.

§§ In January 2024, AWS announced an additional \$20 million in funding for the Health Equity Initiative, bringing the company's total commitment to \$60 million in cloud credits.




2023 Year in Review

As we reflect on 2023, we are proud of the progress we made. We worked hard to reduce our environmental footprint, drive progress throughout our value chain, and create a safer, more inclusive place for people to work.

Environment

3%
Reduction in absolute carbon emissions

100% 
Of electricity consumed by Amazon matched with renewable energy sources, up from 90% in 2022

77 
New signatories of The Climate Pledge, bringing the total to 473

13%
Decrease in carbon intensity

#1
Largest corporate purchaser of renewable energy in the world for the fourth year in a row, according to BloombergNEF

75%
Reduction in food waste intensity—a measure of food waste as a percentage of total food handled by weight—in Europe operations and 28% reduction in U.S. operations compared to a 2021 baseline

680M
Packages delivered using more than 24,000 electric delivery vehicles globally

12%
Of packages globally shipped without additional Amazon packaging as part of our Ships in Product Packaging program

41%
Of the way toward meeting our AWS water positive goal to return more water to the communities where AWS operates than is used in direct operations


9%
Decrease in average single-use plastic packaging weight per shipment across Amazon's global operations network

Value Chain

3K
Assessments of suppliers of Amazon-branded products on their social and environmental performance

\$4.3B
Spent with more than 500 certified U.S. Tier 1 diverse suppliers—certified diverse businesses that provide goods and services directly to Amazon to operate our businesses

1.16B
Items sold that are recognized by certifications in our Climate Pledge Friendly program, a 42% increase from 2022

Nearly 16K 
Affordable homes created or preserved and nearly 35,000 residents supported through the Housing Equity Fund

\$20M 
Catalyzed by founding members of U.S. Agency for International Development (USAID)'s Climate Gender Equity Fund, a public-private partnership that leverages funding to scale climate finance that advances gender-equitable climate action

\$16.8M
In cloud computing credits distributed to 125 organizations globally to promote equal access to health resources, totaling more than \$32 million distributed to 229 organizations since 2021

People

358K+
U.S. employees have participated in upskilling programs since we announced our Upskilling Pledge in 2019

20K
Military veterans and military spouses hired in 2023, totaling over 100,000 hired through January 2024

76K
Amazon employees from 51 countries participated in our second Global Month of Volunteering

\$1.3B
Invested toward pay increases for customer fulfillment and transportation employees in the U.S., bringing the average pay for those roles to over \$20.50 per hour

30%
Improvement in global Recordable Incident Rate in 2023 versus 2019

Nearly 16.5K
Ukrainians globally, including refugees, received training through the AWS program ITSkills4U by the end of 2023

60%
Improvement in global Lost Time Incident Rate in 2023 versus 2019



Environment

At Amazon, we combine data and science with passion and invention to drive everything we do. We are committed to and invested in sustainability because it's a win all around—it's good for the planet, for business, for our customers, and for our communities. We set big goals and work backward to achieve them. We are working to innovate and scale solutions that minimize our emissions, waste, and water usage; increase our use of carbon-free energy; and pioneer new approaches for packaging, materials, and products.

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Wind Wall, a wind farm located in California's Tehachapi Mountains, generates carbon-free energy to AWS.



Carbon

The science is clear. Significant carbon emission reductions are required to avoid the most severe effects of climate change, restore biodiversity, protect vulnerable communities, and ensure a habitable planet for future generations. Climate change also has the potential to disrupt global supply chains and change the ways businesses operate today. We have an opportunity—and responsibility—to use our size, scale, and resources to do our part to solve global challenges. In 2019, we co-founded and committed to The Climate Pledge—our goal to reach net-zero carbon emissions by 2040, 10 years ahead of the Paris Agreement. We are continually working to reduce emissions throughout our business, as well as partnering across our supply chain and the industries in which we operate to share and scale what we've learned.

Goal

Reach net-zero carbon emissions by 2040—10 years ahead of the Paris Agreement



3%

Reduction in absolute carbon emissions since 2022

13%

Decrease in carbon intensity since 2022

Goal

At least 100,000 electric delivery vans on the road by 2030, from Rivian and other manufacturers



19K+

Electric vans deployed in the U.S., Europe, and India



Goal

Deploy 10,000 electric vehicles (EVs) in India by 2025

7.2K+

EVs deployed in India



Goal

Inspire and empower others to sign The Climate Pledge and join us on a mission to reach net-zero carbon emissions by 2040

473

Signatories, up from 396 in 2022



The Climate Pledge signatories Amazon, Oak View Group, and National Hockey League (NHL) Seattle collaborated to build Climate Pledge Arena, the first International Living Future Institute zero-carbon certified sports and entertainment venue in the world.

Actions



100%

Of electricity consumed by Amazon was matched with renewable energy sources, up from 90% in 2022

Up to

50%

More energy efficiency and up to 40% in cost savings with Inferentia2 chips over other comparable Amazon Elastic Compute Cloud (EC2) chips

24K+

EVs globally, including over 11,800 in the U.S., over 7,200 in India, and over 3,000 in Europe

680M

Packages delivered by EVs globally

200M

Boxes and 226,000 metric tons of carbon dioxide equivalent (CO₂e) avoided with Amazon Day delivery—a shipping option whereby Prime members choose a specific day of the week to receive orders—up from nearly 115 million boxes in 2022



Our Approach

At Amazon, we think long term, take on grand challenges, and invent solutions to complex problems. These are some of the reasons we co-founded and committed to The Climate Pledge in 2019—our goal to reach net-zero carbon emissions by 2040, 10 years ahead of the Paris Agreement—and have invited hundreds of companies to join us.

Amazon has a variety of businesses touching many sectors, some of which rely on carbon-intensive industries to provide critical goods and services to our customers. However, we believe the complexity of our business puts us in a unique position to be a leader in decarbonization strategies. We have an opportunity to demonstrate how achieving net-zero carbon emissions is possible across many sectors, while creating solutions that benefit our business as well as the industries in which we operate.

Foundationally, our strategy relies on embedding decarbonization initiatives and efficiency improvements across our business. Our comprehensive approach to reducing and avoiding carbon emissions focuses on key sectors of our business, including delivery and logistics; building construction and operations; servers and hardware; grocery, products, and devices; and packaging. Teams across Amazon are accountable for setting decarbonization plans that map back to Amazon's worldwide strategy because ownership and accountability are critical to operational success and managing complexity. We focus on four crosscutting initiatives to decarbonize our business:

- **We focus first on driving efficiency** across our operations to reduce and avoid emissions at scale. This includes improving transportation routing, increasing pack and fill rates, improving cloud-computing chip efficiency, adding Low Power Mode to devices, and installing energy-efficient lighting and HVAC solutions in buildings.

- **We select lower-carbon alternatives**, such as lower-carbon concrete and steel in construction, and lower-emission fuels and vehicles in transportation. We use these alternatives where possible, based on a number of factors including cost, emissions reduction potential, and availability.
- **We're transitioning toward carbon-free electricity**, investing in renewables—rooftop solar installations on our buildings, and new, utility-scale wind and solar projects—as well as other carbon-free electricity sources, such as nuclear.
- **We engage with suppliers** to help reduce emissions from activities beyond our direct operations. We encourage them to set credible decarbonization goals, publicly share progress, and implement carbon reduction strategies throughout their operations and supply chains—and we are providing support to help our supply chain take action.¹

In addition to decarbonizing our own business, we are helping drive progress across industries. To do this, we focus on three accelerators:

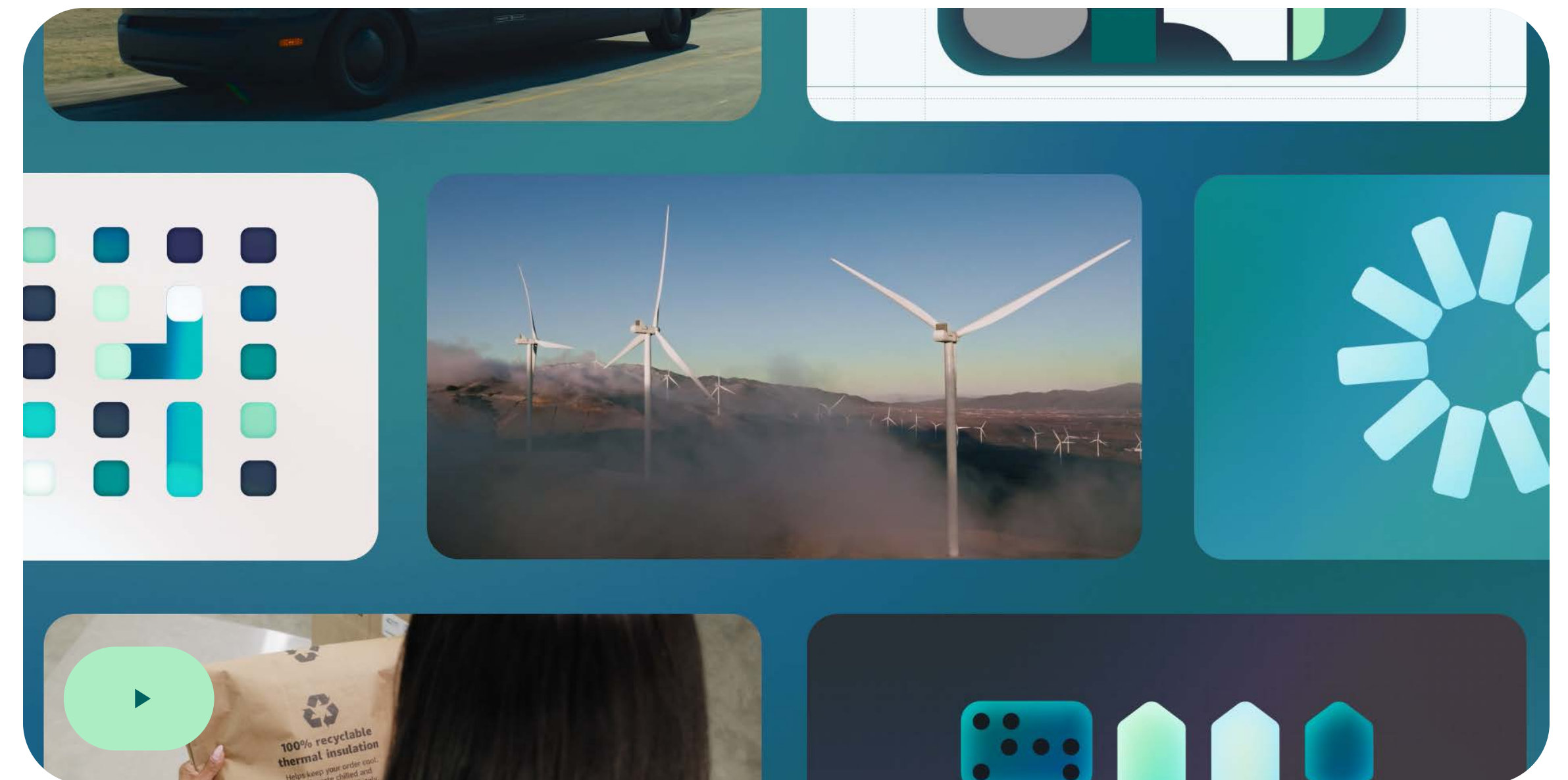
- **We invest in breakthrough technology** by adopting ready-to-scale solutions, as well as evaluating and investing in emerging technologies that can help address emissions from hard-to-abate sectors including aviation, shipping, and building construction. Through direct funding, we aim to advance our own progress toward net-zero carbon emissions and help accelerate the widespread adoption of new technologies by making them more affordable and accessible.
- **We support policies that drive decarbonization.** Amazon works with policymakers, governments, nongovernmental organizations (NGOs), industry associations, coalitions, and other partners on numerous

regulatory and policy issues. We seek to advance and incentivize decarbonization by supporting policies that scale lower-emission fuels, drive lower-emission vehicle deployment and infrastructure, advance the deployment of carbon-free energy, modernize the grid, and accelerate investments in clean technologies.

- **We catalyze industry action.** Through The Climate Pledge, Amazon brings together companies from around the world to drive collective action, cross-

sector collaboration, and engagement in initiatives that encourage industry action toward decarbonization.

In parallel to reducing and avoiding emissions throughout our business, we are also investing in carbon neutralization through additional, quantifiable, real, permanent, and socially beneficial offsets. As part of this effort, we are engaging in science-led collaborations to build credible neutralization initiatives that can be deployed at scale in the future.



Watch [how we embed sustainability initiatives throughout all aspects of our business.](#)



Our Progress

Amazon's Carbon Footprint

In 2023, our absolute carbon emissions decreased by 3%.² This overall decrease was driven by an 11% reduction in emissions from electricity (Scope 2) and a 5% decrease in indirect and supply chain emissions (Scope 3). We had a 7% increase in emissions from our direct operations (Scope 1), primarily from the use of transportation fuels. Our carbon intensity decreased for the fifth consecutive year, down 13% from 2022 to 2023.³ This metric demonstrates how we are working to decouple emissions growth from business growth.

Every year, we aim to serve our customers better, more quickly, and with fewer emissions, but we know our progress may not be linear as our business continues to grow. In 2023, we invested in carbon abatement projects across Amazon. We continue to invent, think long term, and place big bets to accelerate decarbonization efforts year over year. In addition to our direct investment and work to decarbonize our business, we also worked with organizations throughout our supply chain and broader industry to reduce and avoid emissions and create solutions to help decarbonize our value chain. Annually, we also improve our science and data-driven approach to track and measure decarbonization across Amazon.

Scope 1: Direct Emissions and Operations

Amazon's Scope 1 emissions are primarily generated from the fuel used by our transportation and logistics fleet to deliver packages to customers. In 2023, our Scope 1 emissions increased 7% compared to 2022 and represented 21% of our total carbon footprint. This change was due to an increase in the number of packages delivered by Amazon Logistics versus third-party transportation providers, as well as overall business growth.

Amazon's Carbon Footprint

Carbon Intensity	2019	2020	2021	2022	2023	YoY%
Carbon Intensity (grams of CO ₂ e per \$ of gross merchandise sales)	122.8	102.7	100.8	93.0	80.8	-13%
Emissions Category (MMT CO ₂ e)						
Emissions from Direct Operations (Scope 1)	5.76	9.62	12.11	13.32	14.27	7%
Fossil fuels	5.57	9.37	11.89	12.96	14.00	8%
Refrigerants	0.19	0.25	0.22	0.36	0.27	-25%
Emissions from Purchased Electricity (Scope 2)*	5.50	5.27	4.07	3.14	2.79	-11%
Emissions from Indirect Sources (Scope 3)*	39.91	45.75	55.36	54.28	51.76	-5%
Corporate purchases and Amazon-branded product emissions (e.g., operating expenses, business travel, and Amazon-branded product manufacturing, use phase, and end-of-life)	15.41	16.70	19.09	19.72	19.11	-3%
Capital goods (e.g., building construction, servers and other hardware, equipment, vehicles)	8.01	10.52	15.37	10.25	8.95	-13%
Other indirect emissions (e.g., third-party transportation, packaging, upstream energy-related)	12.44	15.77	18.00	20.90	20.07	-4%
Lifecycle emissions from customer trips to Amazon's physical stores	4.05	2.77	2.91	3.41	3.63	7%
Amazon's Carbon Footprint	51.17	60.64	71.54	70.74	68.82	-3%
Greenhouse Gas Protocol Aligned Scope 3 Categories				2022	2023	
Purchased Goods and Services (Amazon corporate purchases made for Amazon's operations and services, Amazon-branded products)				20.60	19.86	
Capital Goods				10.25	8.95	
Fuel- and Energy-Related Activities				4.76	4.97	
Upstream Transportation and Distribution				10.65	9.30	
Business Travel				0.61	0.63	
Employee Commuting				2.78	2.88	
Downstream Transportation and Distribution				3.41	3.63	
Use of Sold Products (Amazon Devices)				1.18	1.50	
End-of-Life Treatment of Sold Products (Amazon Devices)				0.04	0.04	

2022 Carbon Footprint recalculated in accordance with updated Carbon Methodology.

| **Learn more** about what's included in Amazon's carbon footprint in our [Carbon Methodology](#)

* Scope 2 and 3 carbon emissions are calculated using a market-based method.



Scope 3: Indirect Emissions from Other Sources

Scope 3 emissions include emissions from activities that take place beyond our direct operations, including building construction, third-party transportation, and the production of Amazon-branded products and the materials and components used in those products. In 2023, our Scope 3 emissions decreased by 5% from 2022 and represented 75% of our total carbon footprint. This decrease resulted from reductions related to building construction, leased buildings and equipment, and third-party transportation, as more goods were shipped by Amazon’s own logistics providers versus third-party providers than in 2022.

Building construction is a significant driver of carbon emissions in many supply chains due to the associated embodied carbon that is emitted. Embodied carbon includes any carbon emissions created during the manufacturing of building materials, the transport of those materials to the job site, and the construction practices used. Embodied carbon is counted in a company’s carbon footprint the year the building is completed and operational. We aim to reduce embodied carbon in building construction by using lower-emission concrete, lower-emission steel, and mass timber. In 2023, 29 Amazon building projects were constructed with lower-carbon concrete and steel, and collectively reduced embodied carbon by 79,500 metric tons of CO₂e, equivalent to the emissions generated by 17,200 cars driven for a year.

Because Scope 3 emissions are beyond our direct operational control, the efforts our suppliers take to reduce their emissions help us progress toward our ambition to achieve net-zero carbon emissions by 2040. We will prioritize working with suppliers who are also committed to decarbonization and reaching net-zero carbon emissions. We have identified a list of the highest-emitting suppliers directly supporting our operations, and expect those suppliers, who collectively contribute more than 50% of emissions globally to Amazon’s Scope 3 footprint, to provide a plan for how they will decarbonize their operations and demonstrate real progress over time. We will prioritize our business toward those

who provide their plans and results on their path to net-zero carbon emissions. We are already working with many of these suppliers, and will continue our engagement and share learnings. In addition, we also launched our “Amazon Sustainability Exchange”—a free, publicly available website that democratizes our guidelines, playbooks, science models, and other resources to help other companies make meaningful progress toward net-zero carbon emissions.

[Learn more about how we’re engaging suppliers to decarbonize our supply chain](#)

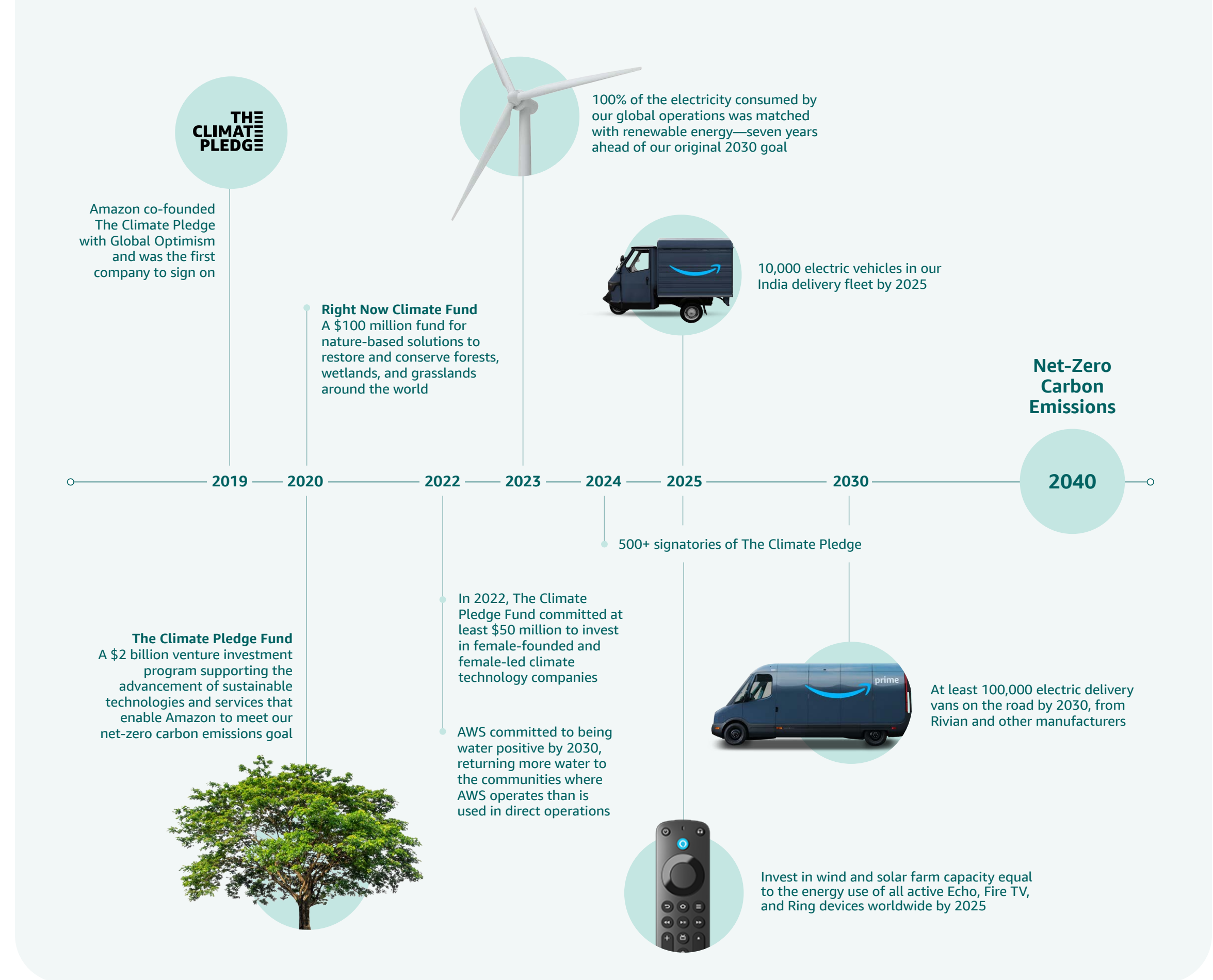
Path to 2040

We know the path to net-zero carbon by 2040 will be challenging, but we are making investments, creating new ways of working, and inventing new solutions to help us decarbonize now and in the future. At Amazon, we think long term, and we’re committed to working collectively with our supply chain and industry partners to create and scale new decarbonization solutions.

We’re proud of the work we do, not just within our own operations but across the many industries of which we are a part. At the end of 2023, The Climate Pledge included 473 signatories focused on achieving net-zero carbon emissions by 2040. Signatories are working together more than ever before, with five new joint action projects launched in 2023. We are also investing in companies that are building breakthrough technologies and other solutions that could, longer-term, lower the overall cost of decarbonization, even in hard-to-abate sectors. One way we do this is through The Climate Pledge Fund, Amazon’s \$2 billion venture investment program, which supports the advancement of sustainability-focused technologies and services that will enable us to meet our net-zero carbon emissions goal.

We will continue to innovate, collaborate, and do the work needed to deliver the best for our customers, progress toward net-zero carbon emissions by 2040, and most importantly, contribute to a healthier planet.

Key Milestones on Our Net-Zero Carbon Journey



Globally, our work to reduce carbon emissions related to our buildings focuses on:

- **Implementing foundational efficiency initiatives:** We are instituting and improving data collection practices to better track our performance and inform our efforts to improve efficiency and reduce energy use and carbon emissions across our buildings portfolio.
- **Scaling renewable energy and lower-carbon approaches to heating and cooling:** We use on-site renewables, such as rooftop solar installations on buildings we operate, as well as renewable energy from the grid to power our buildings. We're also scaling up our use of refrigerants with low global warming potential (GWP) and utilizing alternative fuels as backup power sources and to cool data centers.
- **Creating industry solutions to reduce embodied carbon:** We collaborate with suppliers, industry partners, signatories of The Climate Pledge, and governing bodies to develop and implement standards, alternative materials, and solutions that address environmental challenges specific to the buildings sector.

Implementing Foundational Efficiency Initiatives

We are working to make our buildings more energy-efficient and reduce their carbon emissions. This work starts with collecting robust, accurate, timely, and meaningful data to identify opportunities for improvement.

Our Enterprise Building Management System (EBMS) is one of the tools we use to measure and track energy efficiency at our existing sites. This standardized platform manages facility energy use and controls various building systems to minimize associated carbon emissions. Many of our buildings have thousands of sensors to monitor water use, air flow, temperature, and other environmental variables, which help

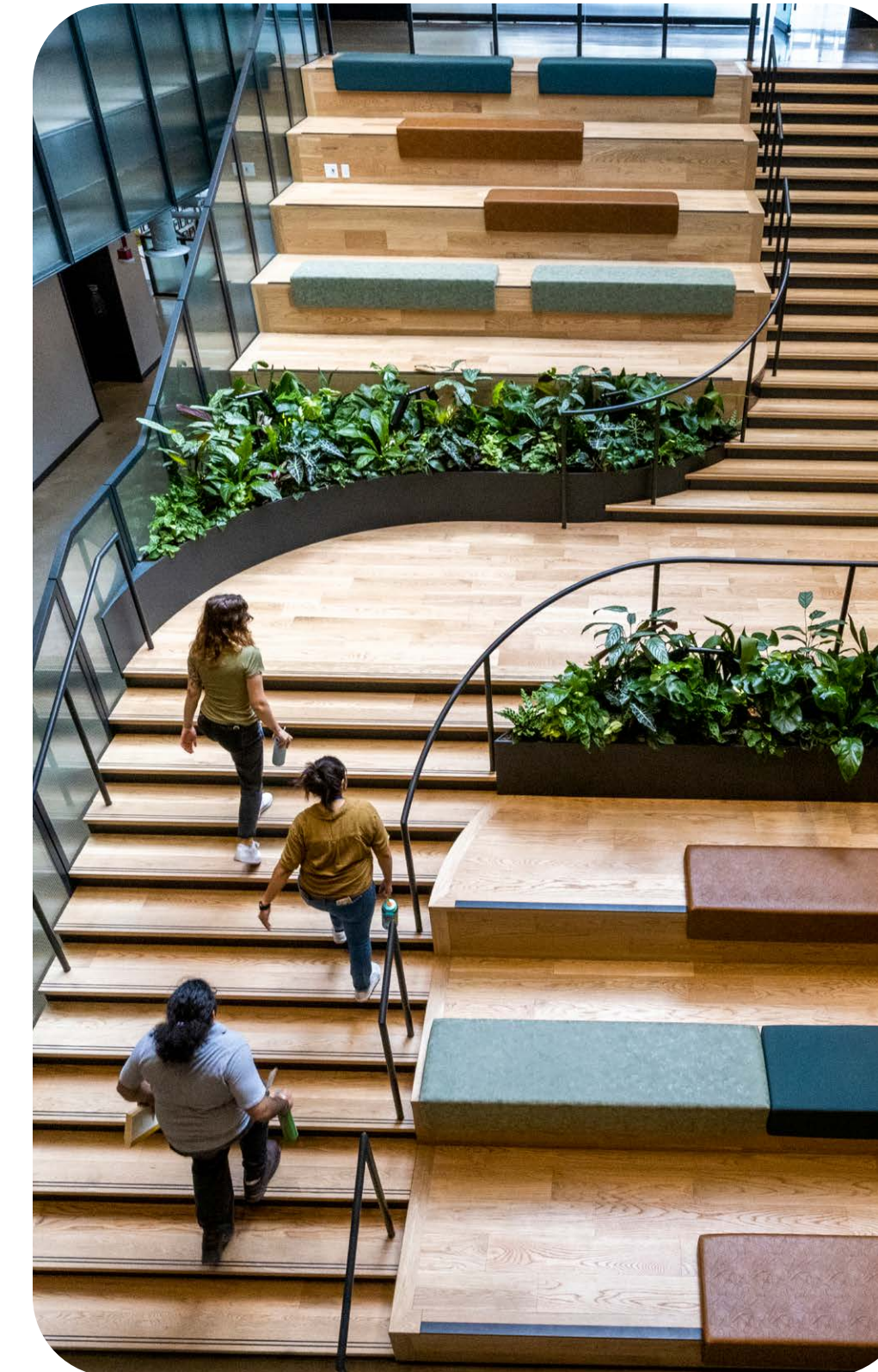
us further improve and optimize our designs. By the end of 2023, our EBMS was active in more than 1,200 facilities globally, a 14% increase from 2022.

We increase energy efficiency across our building operations through lighting and EBMS retrofits as well as rooftop heating, ventilation, and air conditioning unit replacements. Lighting retrofits alone have saved 1.23 billion megawatt-hours (MWh) of energy and avoided more than 873,000 metric tons of CO₂e from 2017 to 2023. These upgrades have included converting all non-LED lamps to high-efficiency LED fixtures with dimming controls.

Validating Our Progress

As teams across Amazon progress toward the decarbonization of our buildings, we've begun to validate our efforts using the International Living Future Institute's Zero Carbon Certification (ZCC). This third-party certification program validates improvements to our building decarbonization efforts and provides clear accountability for our internal teams and external building partners. This rigorous, carbon-centric program requires us to provide actual measured—not predicted—performance over one year of building occupancy to assess credible carbon emission reductions. This means that we are just now receiving certifications for the first pilot projects we submitted for evaluation.

Amazon achieved two full certifications for building projects in 2023: an Amazon Fresh store in Seattle, Washington—which was the world's first building of its type to achieve the certification—and a Same Day delivery station in Sacramento, California—the first-ever North American logistics building to be certified. We are working to scale alignment with this certification program throughout our company, with dozens of projects across our global buildings portfolio currently using ZCC standards to measure and validate our decarbonization efforts.



Design elements at HQ2 incorporate native flora and fauna and use earth tones and natural materials, such as wood and stone, to create a warm and inviting atmosphere.



Sustainability at Our Second Headquarters

We want our corporate offices to be both inspiring places to work and models of what is possible when it comes to sustainable design and construction.

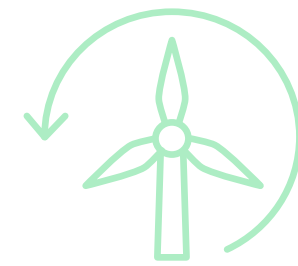
We built our second headquarters (HQ2) in Arlington, Virginia, with sustainability in mind. Opened in May 2023, HQ2 runs on 100% renewable electricity and achieves energy savings of 24% relative to a comparable Leadership in Energy and Environmental Design (LEED) baseline. In March 2024, it became the largest project (by building square footage) in the U.S. to receive LEED v4 Platinum certification.

Using an advanced lower-carbon concrete mix design developed by CarbonCure, which we invested in through The Climate Pledge Fund [☞](#), we achieved a 20% reduction in HQ2's concrete structure carbon footprint compared to the industry baseline.⁸ This avoided 14,700 metric tons of CO₂e, which is the equivalent of taking 3,500 cars off the road in the U.S. for an entire year. More than 40 Amazon sites globally now use this same CarbonCure technology.



Carbon-Free Energy

Transitioning to carbon-free energy sources—which include renewable energy sources such as wind and solar as well as other sources such as nuclear power—is one of the most effective ways to lower Scope 2 emissions. It can also create real economic growth in communities where energy projects are built and operate, while helping advance the modernization and management of energy infrastructure. As our customers’ needs for computing power, products, and services grow, so does our demand for energy. That means we must diversify our energy portfolio with additional reliable carbon-free sources, so we remain on track to reach net-zero carbon emissions by 2040. Our goal to match 100% of the electricity consumed by our global operations with renewable energy by 2025 is a milestone that is now part of our broader carbon-free energy strategy.

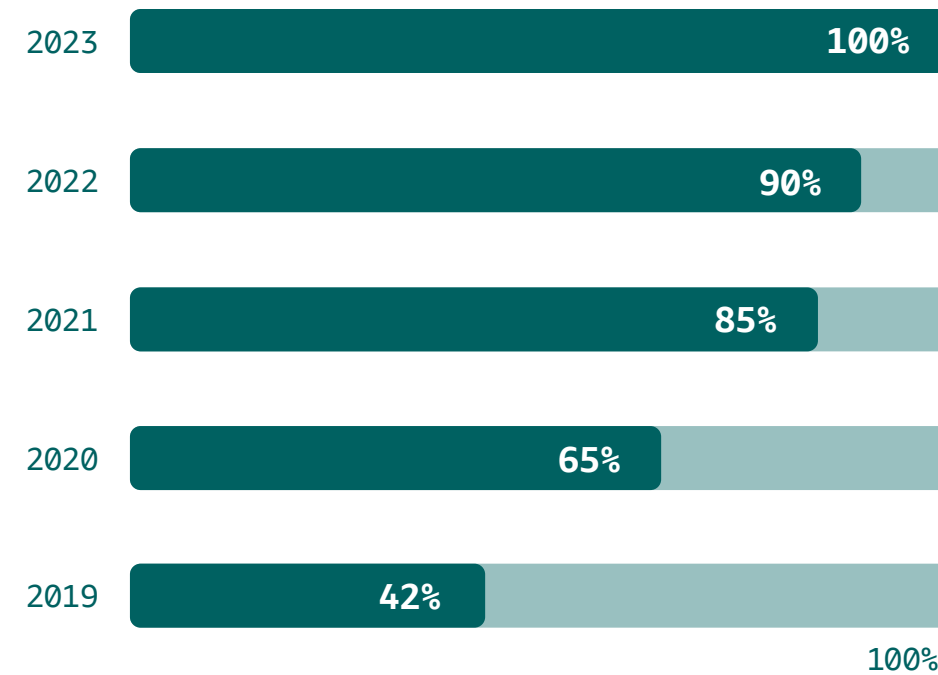


Goal

Match 100% of the electricity consumed by our global operations with renewable energy by 2025—five years ahead of our original target of 2030¹⁰

100%

Of electricity consumed by Amazon was matched with renewable energy sources, up from 90% in 2022



Actions

#1

Largest corporate purchaser of renewable energy in the world for the fourth year in a row, according to BloombergNEF

500+

Renewable energy projects announced across 27 countries, representing more than 28 gigawatts (GW) of carbon-free energy capacity, up from 401 projects in 2022 and 274 in 2021

1.3 GW

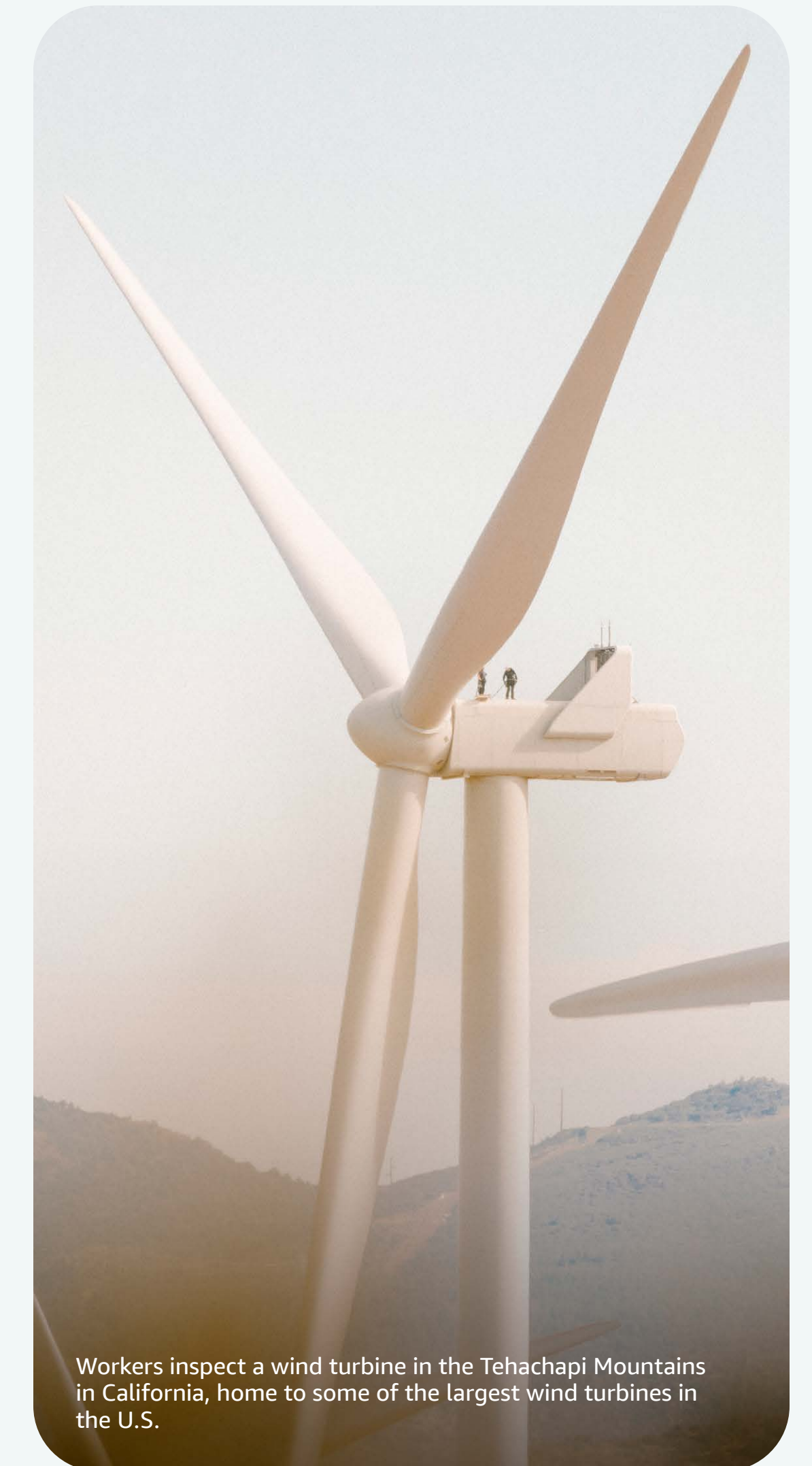
Energy storage capacity, up from 445 megawatts (MW) in 2022

\$12B

Economic value that Amazon’s solar and wind farm investments helped generate in communities around the world

39K+

Full-time-equivalent jobs created in 2022 as a result of Amazon’s global solar and wind farm investments



Workers inspect a wind turbine in the Tehachapi Mountains in California, home to some of the largest wind turbines in the U.S.



Optimizing with Lighter, More Flexible, and Right-Sized Packaging

We strive to keep our packaging lightweight and minimal while ensuring deliveries reach customers without damage. Lighter, more flexible, and right-sized packaging helps reduce delivery emissions per package by using less material and taking up less space in delivery vehicles. Since 2015, we have decreased our average per-shipment packaging weight by 43%, which represents more than 3 million metric tons of packaging materials avoided.

When possible, Amazon uses lightweight packaging by prioritizing flexible paper bags and envelopes. In the U.S., these flexible options are up to 89% lighter than similar-sized rigid corrugated boxes. With millions of products and an infinite number of order combinations, identifying the optimal packaging solution to keep each order safe during transit represents a significant challenge. That is why we use machine learning algorithms to determine the most efficient option for each order we fulfill.

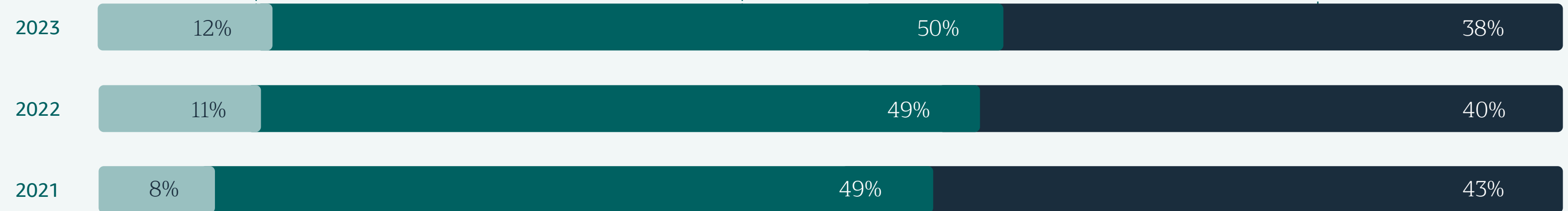
Data scientists trained an AI model to understand a variety of product features, including shape and durability, and to analyze customer feedback on how different packaging options have performed. The model is constantly learning and has helped reduce our use of packaging material since it launched in 2019.

Machine learning algorithms also help us determine the best fit for orders with multiple items, so we can decrease empty space in boxes. Optimized shipments require less space in the vehicles that deliver packages to our customers, helping reduce the number of vehicles on the road.

Another way Amazon uses machine learning is to optimize the suite of cardboard box options at any one facility. Our web-based tools help identify and select a facility's suite of shipping box types based on the order patterns unique to that facility.

Amazon Delivery Packaging by Type

We aim to increase the number of products that ship in the manufacturers' original packaging without additional packaging, as well as select lighter, right-sized options to reduce our packaging footprint.



Data represents shipments from the Amazon fulfillment network fulfilled through Amazon-owned and -operated fulfillment centers across Canada, France, Germany, Italy, the Netherlands, Poland, Spain, Sweden, the UK, and the U.S.



Value Chain

Millions of people work alongside Amazon to serve our customers, including our employees, partners, suppliers, and people living in the communities where we operate. We respect the dignity, rights, and well-being of everyone connected to our global business. We aim to provide products and services responsibly, work with more diverse suppliers, and deliver positive impact in our communities.

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- 50 Responsible Supply Chain
- 58 Sustainable Products and Materials
- 64 Supplier Diversity
- 67 Community Impact



Employees at BlueHenry, an Amazon selling partner that specializes in all-natural cocktail garnishes.



Supplier Diversity

Actions



\$4.3B

Spent with more than 500 certified U.S. Tier 1 diverse suppliers^{33, 34}

\$1.5B

Of Tier 2 certified diverse spend reported by more than 200 of Amazon’s U.S. suppliers to drive economic impact^{35, 36}

30K

Jobs supported by Amazon’s supplier diversity spend

\$2.8B

In wages earned from Amazon’s certified U.S. Tier 1 supplier diversity spend

Building diverse and inclusive supply chains drives innovation, supports competitiveness, meets customers’ expectations, and spurs local economic growth through community investment and job creation. For Amazon, a diverse and inclusive supply chain not only strengthens the resilience of our business but also drives the ability to innovate on behalf of our customers through the diverse perspectives and knowledge of people from all backgrounds. We are dedicated to advancing supplier diversity and inclusion (SDI) throughout our supply chain—engaging with diverse-owned and small businesses and driving long-term economic sustainability in the communities we serve.



Kennedy Oates (right), Vice President of Amazon’s Global Procurement Organization, accepts Amazon’s induction into the Billion Dollar Roundtable (BDR) alongside Jeff Ball (left), Director of Finance at Amazon, and BDR co-founder Don McKneely (center).

1 of 7

Companies inducted in 2023 into the Billion Dollar Roundtable, an advocacy organization comprising corporations committed to spending \$1 billion annually with certified U.S. Tier 1 diverse suppliers

63

SDI events attended globally

Nearly

\$900M

In personal, business, and sales taxes generated from Amazon’s certified Tier 1 diverse supplier spend

7

Countries (Australia, Brazil, Canada, Costa Rica, India, South Africa, and the UK) added to Amazon’s SDI initiative—marking its first expansion beyond the U.S.



Our Approach

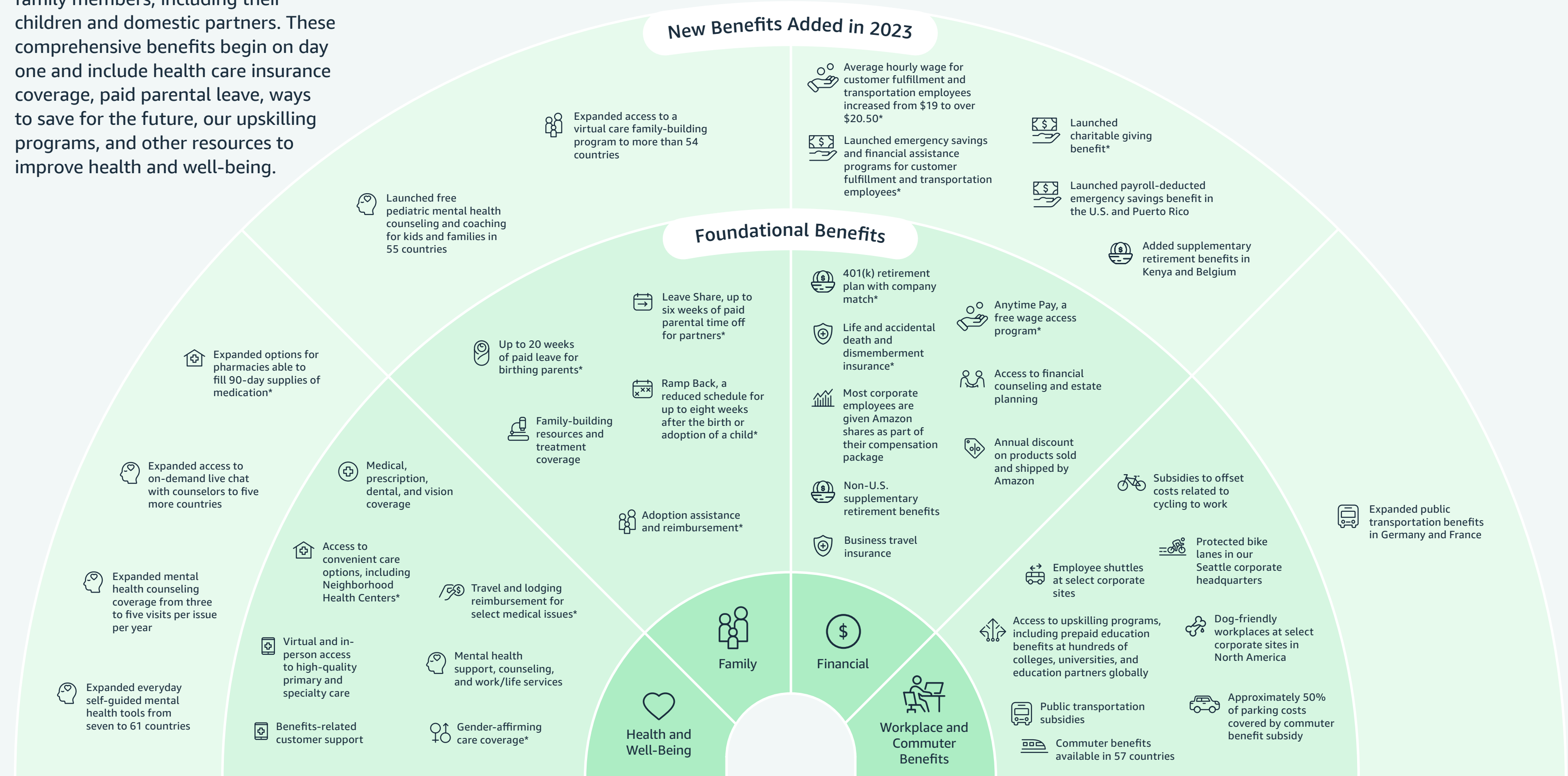
Amazon works hard to attract and recruit the best employees and create a valuable experience for them every day. We do this in part by listening to our employees to understand how we can design benefits that work for them and their families and that are optimized for affordability, flexibility, choice, and personalization. We strive to provide competitive and equitable compensation that rewards our employees for their achievements.

We also want our employees to have the opportunity to grow and thrive with us. As the skills needed for jobs in our sector rapidly evolve, we are preparing our employees by investing in training and development programs with real-world applications. We do this by analyzing the labor market to identify in-demand jobs and providing education and training—including through career coaching and our mentoring network—that reflect the skills needed to be successful in these roles.

In everything we do, we aim to create a culture of mutual respect and progress, underpinned by candid, constructive communication. We offer multiple ways to ensure employees' voices are heard and that they can share concerns and ask questions, including our "open door" policy, whereby employees can reach out to anyone in management with suggestions, concerns, or feedback. Input from our employees, collected from multiple channels, is used to continuously improve our workplace.

Our Benefits

We offer a range of benefits that support our employees and eligible family members, including their children and domestic partners. These comprehensive benefits begin on day one and include health care insurance coverage, paid parental leave, ways to save for the future, our upskilling programs, and other resources to improve health and well-being.



* Only available in the U.S.

The benefits and options available to employees are contingent upon the eligibility details of their respective roles and the associated domestic and international working arrangements.



Employee Communication Channels

Many of our best ideas come from Amazon employees. We value their feedback—both positive sentiments and constructive comments that can help us improve the employee and customer experiences.

Amazon uses various communication channels to maintain awareness of and responsiveness to changing dynamics, questions, concerns, and ideas across our large global workforce. This includes direct daily engagement, such as all-hands meetings with general managers, stand-up meetings with direct supervisors, and other one-on-one meetings.

Employees can also voice concerns, anonymously report potential violations of Amazon’s Code of Business Conduct and Ethics, and ask questions about potentially unethical conduct through Amazon’s Ethics Line. If needed, employees can access several other escalation mechanisms, including executive escalation and communication with their managers or human resources business partners. We actively encourage our employees to report any issues or concerns without fear of reprisal, intimidation, or harassment.

MyVoice

MyVoice, Amazon’s primary Voice of Associate platform, provides a two-way communication channel between our global associates and their site leadership. This online tool allows employees to express concerns, offer suggestions, and ask questions to leadership teams who will reply directly, enabling quicker, more collaborative issue remediation. Globally, employees provided over 600,000 comments through MyVoice in 2023.

We also completed a foundational re-architecture of the MyVoice tool and integrated it within our A to Z employee app, creating a mobile experience for employees that is simpler, is more user-friendly, and increases discoverability. Our enhancements to MyVoice also simplify the experience for leaders, centralizing feedback and associated follow-up

actions and making it easier for leaders to review comments and track actions.

Using the MyVoice mechanism, we continuously improve our policies and practices based on workers’ suggestions. For example, direct suggestions relating to time-tracking led to policy improvements that better served associate needs, provided increased flexibility, and allowed for better work/life balance.

At one fulfillment center in California, we received MyVoice feedback regarding difficulty in commuting to the location. Taking this feedback into account, Amazon partnered with city and local officials to provide a better bus route and stop that would help alleviate the issue. Meanwhile, in India, leaders analyzed feedback from associates related to leave management, resulting in the launch of a new, automatic, end-to-end leave management system, improved standardization, and, as a result, a better associate experience.

Connections

Connections is Amazon’s real-time, companywide feedback mechanism designed to facilitate listening to and learning from employees at scale. Each day, employees can choose to respond to Connections questions—delivered in 29 languages—via their computers, workstation devices, or hand scanners. Connections improves the employee experience by identifying obstacles to meaningful work, surfacing issues before they become acute problems, and highlighting strengths so they don’t become missed opportunities.

Across Amazon, our employees generate more than 1.6 million Connections responses across 60 countries each day. Connections analyzes and aggregates individual response data, sharing it with managers at the team level to maintain confidentiality. Managers can then take relevant actions for improvement at the earliest opportunity to build trust with their teams. For example, as a result of Connections feedback that both career growth and perceptions of growth were important drivers of employee

satisfaction, Amazon introduced a new program allowing employees and their managers to work together to drive career growth more effectively.

Associate Roundtables, Forums, and Safety Committees

Associate Roundtables provide employees and managers with a meaningful opportunity to discuss issues, ask questions, and get immediate feedback in person. Amazon hosts these meetings around the globe, with their exact cadence varying by business line and site.

Associate Forums create opportunities for employees to connect with site leaders on decisions that affect the site or employee experience. In 2023, we held 146 Associate Forums.

Associate Safety Committees allow employees at various sites globally to offer input on relevant safety matters. In 2023, 185,000 employees participated in over 25,000 Safety Committee meetings, collectively developing 13,000 actions to increase on-site safety.

Appeals

Amazon maintains a defined appeals process for our employees. Across the U.S. and Canada, eligible employees can use an online, paperless appeals service to challenge certain disciplinary actions. The applicable manager reviews the claim to verify policies have been correctly applied. Where this is not the case, appropriate remediation can then be taken.

Learn more about our approach to ethical business in our [Sustainability Reporting Framework Summary](#) ↴

Freedom of Association

We respect freedom of association and our employees’ right to form, join, or not join labor unions or other lawful organizations of their choosing without fear of reprisal,

intimidation, or harassment. These rights should be exercised in an informed and thoughtful manner.

Globally, Amazon applies or is party to dozens of collective bargaining agreements at national, regional, sectoral, and enterprise levels. In 2022, we established a European Works Council, holding our first meeting in April 2023. The European Works Council is composed of workers and employer representatives and meets regularly to discuss transnational company issues.

Learn more about our respect for freedom of association in our [Human Rights Commitment](#) ↗

Looking Forward

Amazon is always exploring new ways to enhance the employee experience. We will continue focusing on upward mobility by offering technical and skills training for career advancement and encouraging participation in our Career Choice program, which provides employees the opportunity to get prepaid college, GED, or English as a second language (ESL) tuition. Finally, as we strive to be Earth’s best employer, we’ll seek to further integrate flexibility into how and when our employees work and will continue to offer competitive compensation, financial support, and benefits. We’re eager to keep improving our employee engagement efforts and build even more robust feedback mechanisms to ensure that our global workforce feels valued, heard, and appreciated.



Health and Safety

Actions

30%

Improvement in global operations Recordable Incident Rate (RIR) over the past four years and 8% improvement from 2022. RIR includes any work-related injury that requires more than basic first aid treatment^{38, 39}

200K+

Employee safety observations successfully actioned to make our sites safer



Nearly

6.3M

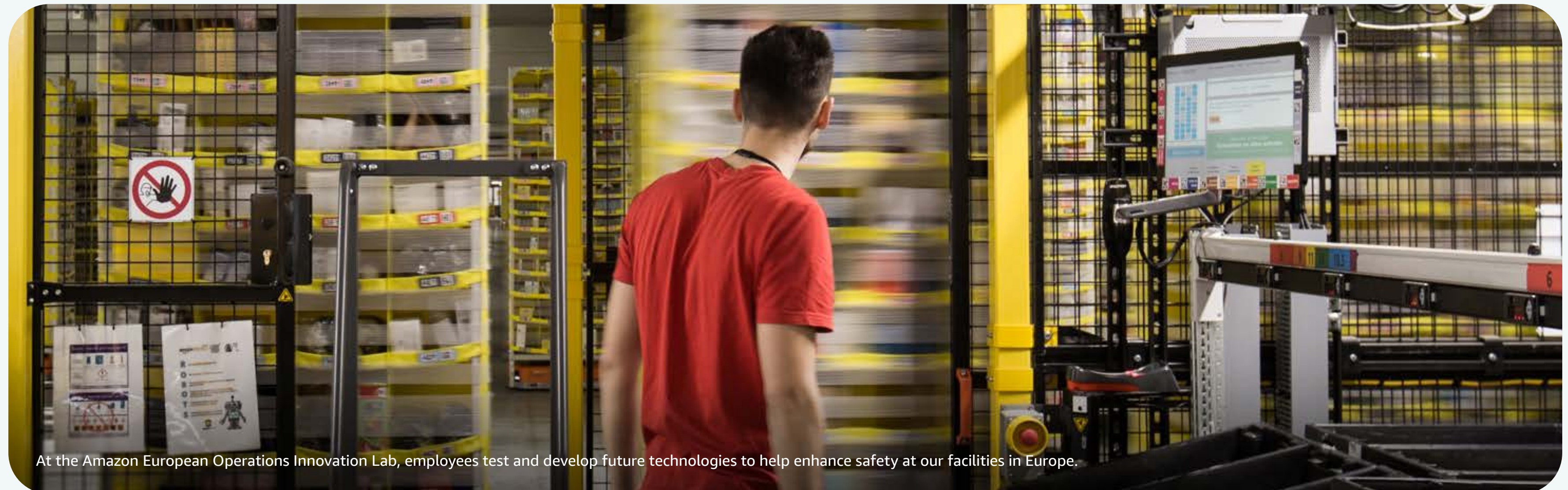
Site inspections conducted globally, a 152% increase from the 2.5 million conducted in 2020



60%

Improvement in global operations Lost Time Incident Rate (LTIR) over the past four years and 16% improvement from 2022. LTIR includes any work-related injury that requires someone to take time away from work (the most serious injuries)

Amazon's people are the heart and soul of our operations and the reason that safety is integral to everything we do. We strive to be the safest place to work in the industries in which we operate, and we're committed to making sure our employees' health and well-being are prioritized. We are continuously working to enhance our safety processes, leveraging technology to reduce risk, investing in areas where we must improve, partnering with others, and listening to our employees. The meaningful progress we've made so far would not be possible without the combined efforts of our more than 9,000 dedicated safety professionals and every one of our employees around the world.



At the Amazon European Operations Innovation Lab, employees test and develop future technologies to help enhance safety at our facilities in Europe.



Our Approach

Our Leadership Principle “Strive to Be Earth’s Best Employer” challenges us to create a safer, more productive, higher-performing, more diverse, and more just work environment. It reinforces that nothing is more important than the safety and well-being of our teams.

We aim to be the safest workplace in the industries in which we operate. To drive continuous improvement, we measure progress against both lagging indicators, such as incident rates, and leading indicators, such as employee sentiment. We have safety audits, inspections, and feedback mechanisms in place at every Amazon facility. Together, these steps provide us with a full picture of our workplace safety.

A risk management approach guides our prioritization and decision-making. It includes:

- Engaging employees to continuously improve safety in our operations.
- Assessing safety processes and adherence to standards through audits and inspections.
- Measuring safety performance to assess program effectiveness and identify and remove hazards.
- Working with our operations partners to enhance safety across our network.
- Making targeted investments to enhance our safety performance.

A management system aligned with International Organization for Standardization (ISO) 45001:2018—a voluntary international standard for health and safety management—helps guide our efforts in these areas.

Our Progress

In 2023, we continued to invest in capital improvements, new safety technology, vehicle safety controls, and engineered ergonomic solutions. All of these actions aim to reduce risks and hazards for our employees, partners, and communities.

Supporting Our Operations and Workforce Safety

Creating a culture where every employee feels engaged and empowered is essential to providing and maintaining a safe environment. We have established a series of feedback mechanisms to ensure we listen to our people on the front lines and incorporate their feedback on ways to improve safety across our operations.

Safety Observations

One method we use to take employee feedback and turn it into measurable action is Dragonfly. This tool—available on employees’ devices and at kiosks on-site—empowers employees to find and fix unsafe conditions or behaviors, escalate safety concerns, and suggest safety improvements during the course of their work. Dragonfly informs site managers so they can take appropriate action. In 2023, we successfully actioned over 200,000 Dragonfly observations to help make our sites safer.

Safety Committees

Throughout 2023, more than 185,000 employees participated in over 25,000 safety meetings whose purpose was to gather feedback, describe new safety initiatives, and listen to employee needs. These meetings resulted in more than 13,000 follow-up actions, including simple items like readjusting site mirrors to better align with walking paths and sharing reminders on how to safely move pallets.

Safety Leadership Index

Another tool that we use to measure and improve safety is the Safety Leadership Index (SLI). SLI helps us get ahead of safety risks by receiving information from our employees through a monthly rotation of questions that pop up on employees’ scanners and computers when they log in for work. Feedback is anonymous, confidential, and crucial to driving continuous improvement.

Training Our Employees

Training is foundational to safety excellence. We are constantly updating and enhancing our suite of trainings to ensure they are effective and helpful for employees.

Onboarding

All applicable new employees receive safety training on their first day of employment. In 2023, all of our newly hired operations employees took our safety onboarding training. This covers ownership of safety, incident reporting and investigation, stop work authority, awareness for all safety procedures, and an introduction to the safety management system. We also review emergency response preparedness training, which includes a site tour and a review of specific shelter-in-place and incident response procedures. To make sure that we are listening to employees’ feedback from their first day on the job, we ask whether their training has prepared them to perform their jobs safely. Nearly 89% of those who responded to the survey told us that the training prepared them to do their jobs safely.

Continuous Learning

After orientation, training continues with routine reminders delivered through daily stand-up meetings, notifications in the A to Z employee app, messages on TV screens in our buildings, alerts when logging on to a workstation, e-learning modules, and wall posters in restrooms, break rooms, and other common areas. We also coach small groups of employees on body mechanics, proactive wellness, and safety through our Huddles program. Managers cover a rotating set of topics that includes proper body movement, conditioning, and best practices for gripping, handling objects, lifting, carrying, and bending. Employees also receive other training based on their job duties, including training modules specific to dock safety, powered industrial trucks, and first aid.

Annual Training

Every employee and manager participates in annual safety training, which reinforces concepts such as emergency preparedness and response, hazards and controls of the specific jobs they are doing, safety coaching, identifying and reporting unsafe conditions and behaviors, and safety engagement. This goes beyond merely teaching someone the skills they need to complete a specific task. We incorporate real-world scenarios, with practical opportunities to practice what they have learned.

Mixed Reality Training

Beyond routine training, we invest in new technologies to continuously build safety skills and competencies. We are piloting promising mixed reality training for some higher-risk jobs to simulate real-world scenarios in a controlled, safe environment. For example, we are testing a semi-immersive



training for our new forklift operators. Using 3D headsets to simulate their jobs, operators learn how to pick orders in a safe and efficient way before starting their roles.

Our Partners

Our delivery network is powered by thousands of small businesses and hundreds of thousands of drivers who leverage Amazon’s technology to improve on-road safety every day. While our partners each provide robust programs for their drivers, we offer additional safety resources and training for any delivery partner who wants to participate. For example, to help drivers practice how to navigate safely in a variety of weather conditions, we created a commercial driver simulator program that includes advanced simulations of potential ice, snow, heavy rain, wind, mechanical challenges, and tire failures.

Examining Injuries at Amazon Facilities

In addition to looking at overall injury rates, we believe it is important to examine the types and frequency of injuries to help us prevent incidents from occurring in the first place. That is why we rigorously audit and inspect our sites to make sure our resources and protocols are helping us effectively identify, eliminate, or reduce safety hazards. In 2023, we conducted almost 6.3 million inspections within our operations facilities globally, a 152% increase from the 2.5 million conducted in 2020. We audited 240 sites across Amazon.

These inspections and audits help us determine how to address the various types of injury. One of the most common types of injury at any warehousing or transportation company is a musculoskeletal disorder (MSD), more commonly known as a strain or sprain. Over the past four years, the rate of recordable MSD injuries at Amazon has

improved by 27%, but they still make up about 57% of all recordable injuries at Amazon. The remaining 43% of our recordable injuries were due to slips, trips, and falls, or occasional objects that came loose and fell.

To continue reducing MSD injuries, we have devoted considerable effort and resources to improve ergonomic conditions. In 2023, we invested in technology and workspace modifications that specifically target MSD risk reduction. For example, we:

- Introduced sophisticated computer algorithms in our fulfillment centers that direct employees to pick and stow products in ergonomic power zones—the area between the shoulder and mid-thigh. As a result, there was an average 5% improvement in the cumulative forces acting on the lower back and an average 7% improvement on shoulder movements.
- Implemented adjustable-height workstations at select fulfillment centers.
- Deployed ergonomically redesigned packing stations at select fulfillment centers.
- Introduced self-adjusting carts that enable employees to handle totes (plastic bins used to move products) in an ergonomically friendly way.
- Implemented job rotations, where employees are trained in new roles and can rotate among jobs that use different muscle-tendon groups, in some facilities. By doing this, we help decrease repetitive motion and prevent muscle fatigue.

Evaluating Our Safety Performance

Our global operations network more than doubled in size between 2019 and 2023 to more than 1.1 million employees across thousands of sites.

While we still have work to do, we have made significant progress on safety since 2019. From the beginning of 2019 to the end of 2023, our global Recordable Incident Rate (RIR) improved by 30% and our Lost Time Incident Rate (LTIR) improved by 60%. These safety improvements came in the face of particularly tumultuous world events, including a pandemic that disrupted operations for almost every employer. Amazon’s safety performance continues to improve year over year—from 2022 to 2023, we improved our RIR by 8% and our LTIR by 16%. We are pleased with our progress but know we can do more. Each incident that occurs represents a person, and even one incident is too many.

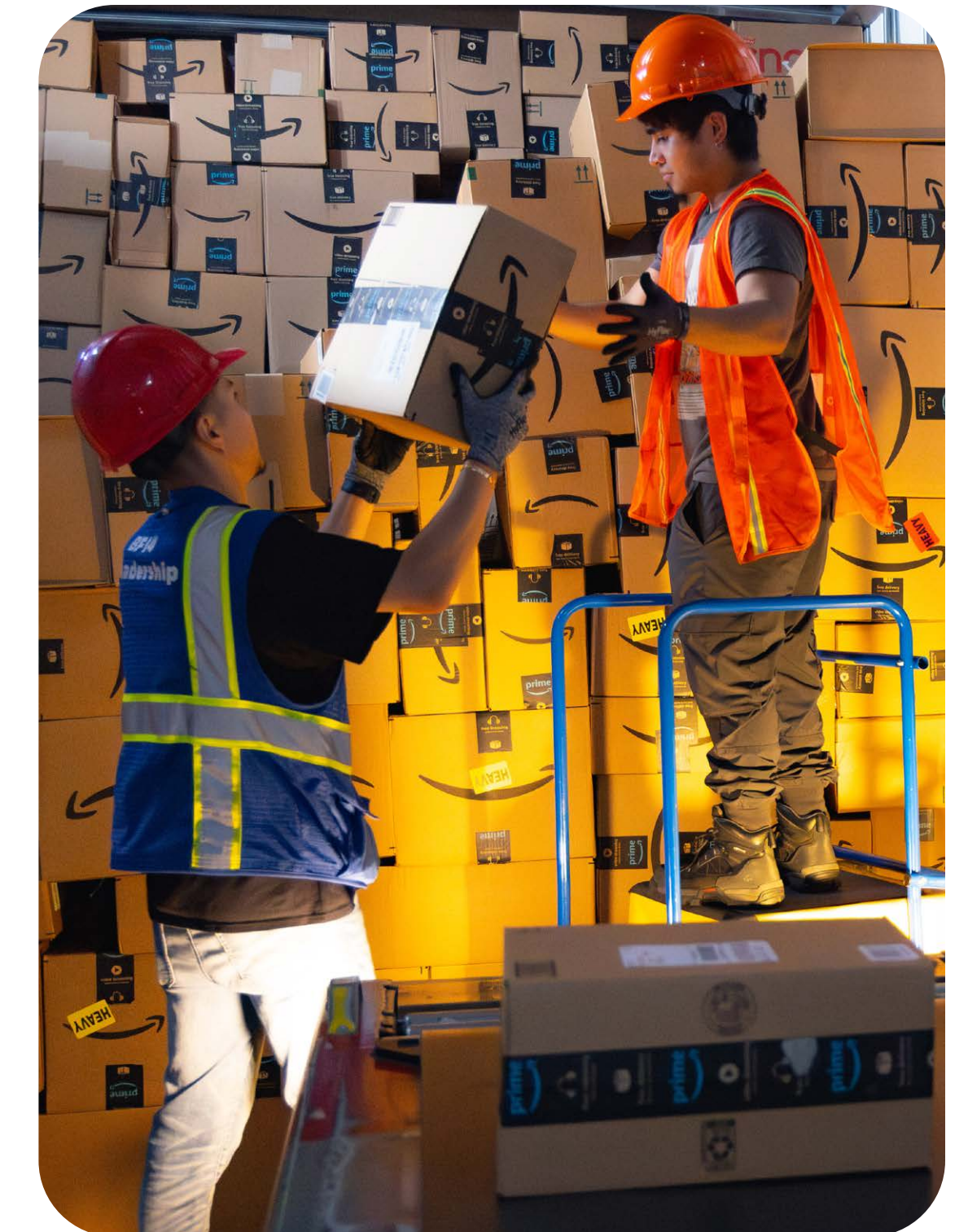
[Learn more about how Amazon’s safety performance continues to improve year over year](#)

Safety in the United States

In the U.S., we report our operations data to the Occupational Safety and Health Administration under two distinct industries: General Warehousing and Storage, and Courier and Express Delivery Services. The Bureau of Labor Statistics (BLS) determines industry averages for each industry based on the employers’ size and categorizes them accordingly. BLS publishes averages each November, meaning the 2022 averages published in November 2023 are the most recent.

Similar to our global operations, we have made meaningful, measurable safety progress in the U.S. over the past four years. In the General Warehousing and Storage industry, our RIR improved by 24% over the past four years. Amazon’s 2023 rate is 6.5, which is better than the latest BLS average of 6.8 for employers our size (>1,000 employees).⁴⁰ Our LTIR improved by 77% over the past four years. Amazon’s 2023 rate is 1.1, which is better than the latest BLS average of 2.6 for employers our size.

In the Courier and Express Delivery Services industry, our RIR improved by 41% over the past four years. Amazon’s 2023 rate is 6.3, which is better than the latest BLS average of 11.5 for employers our size (250–999 employees).⁴¹ Our LTIR improved by 66% over the past four years. Amazon’s 2023 rate is 2.4, which is better than the latest BLS average of 4.7 for employers our size.

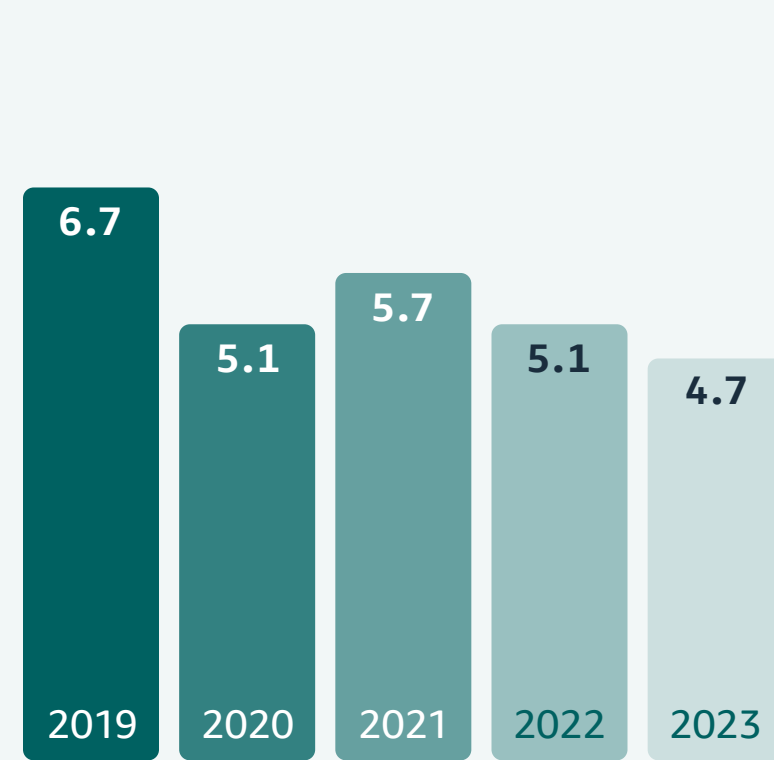


Employees work together to load packages.

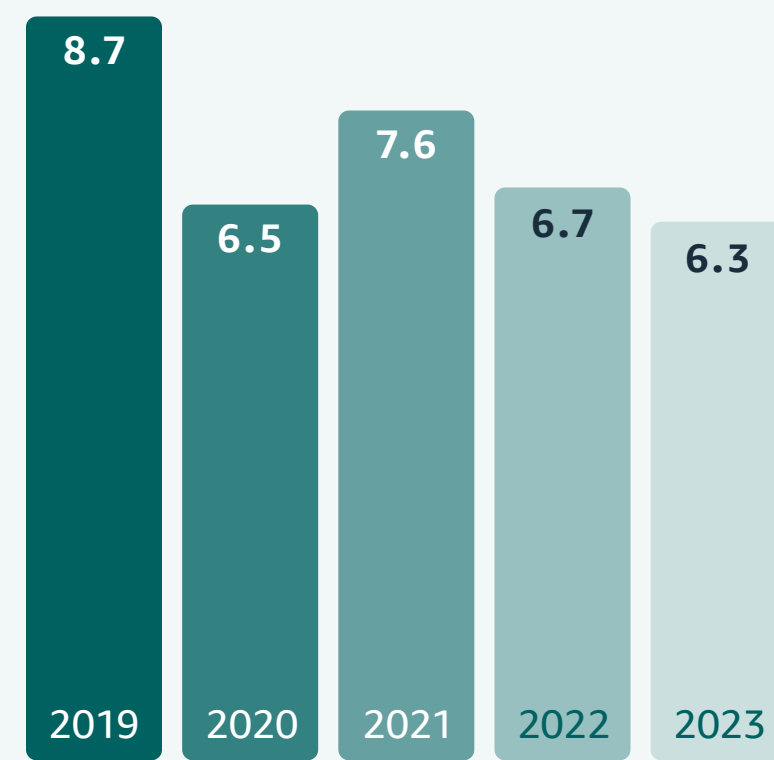


Comparative Safety Data

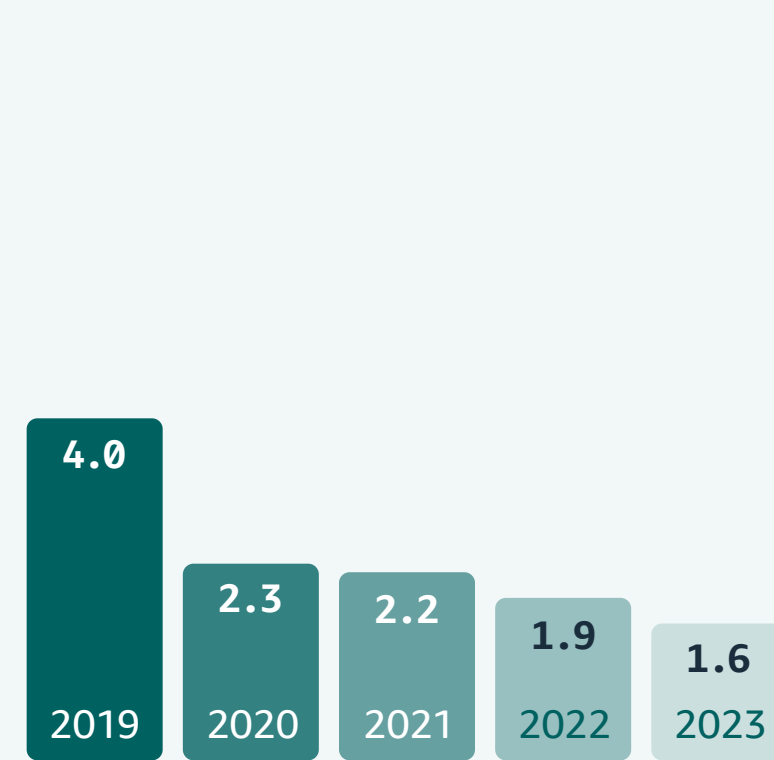
Worldwide RIR:
30% improvement from 2019 to 2023



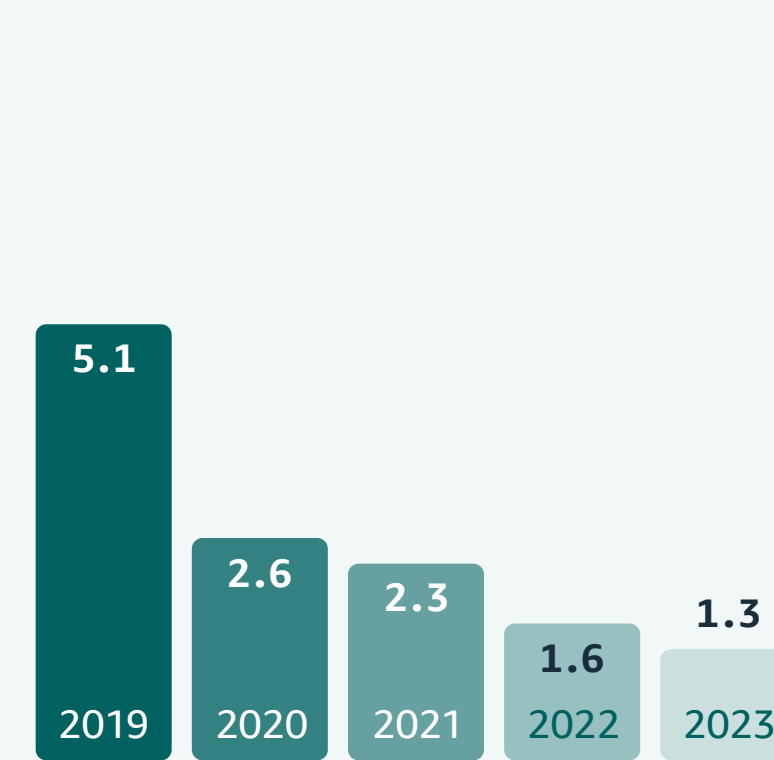
U.S. RIR:
28% improvement from 2019 to 2023



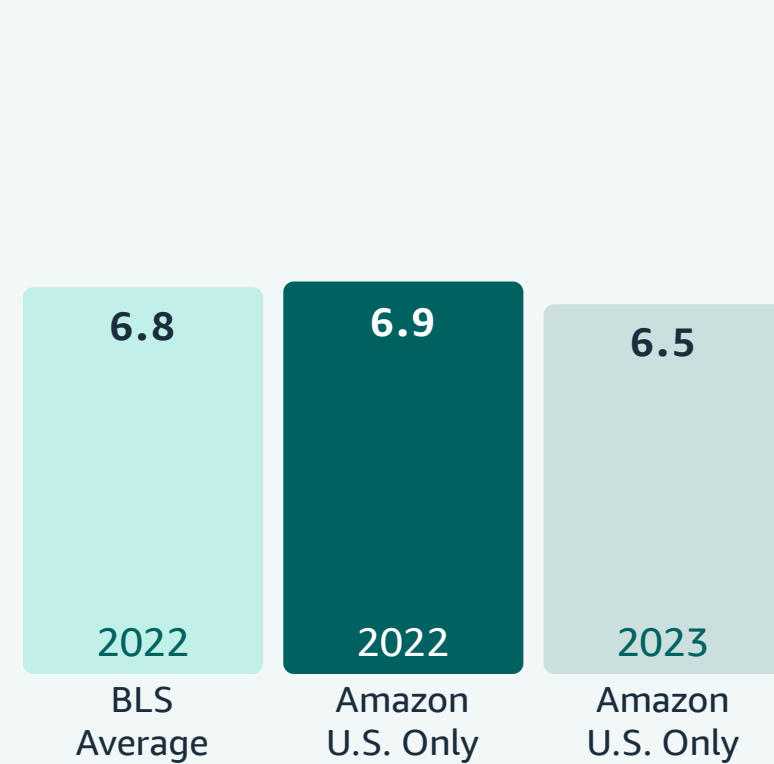
Worldwide LTIR:
60% improvement from 2019 to 2023



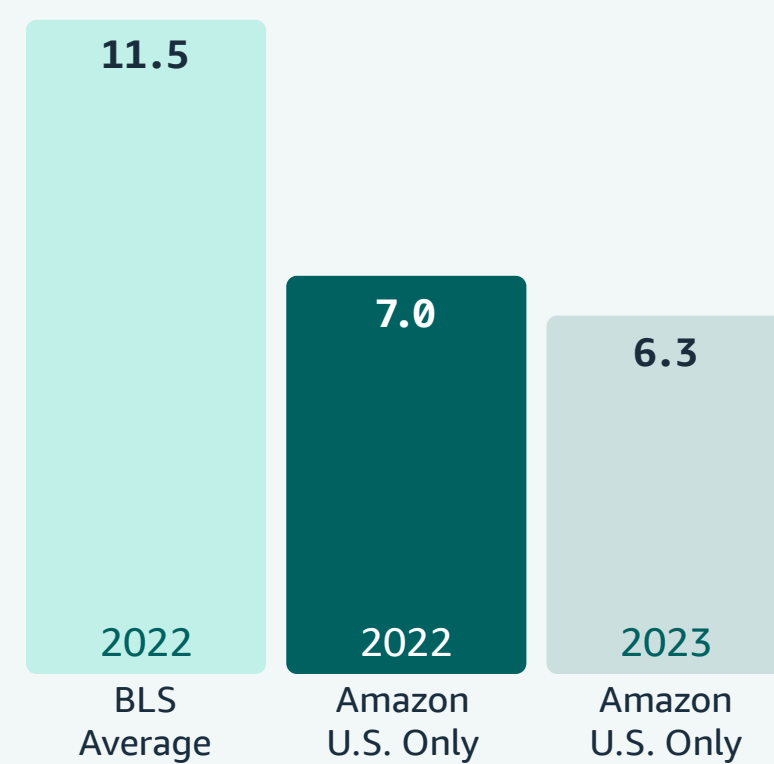
U.S. LTIR:
75% improvement from 2019 to 2023



U.S. RIR Comparison Data for General Warehousing and Storage



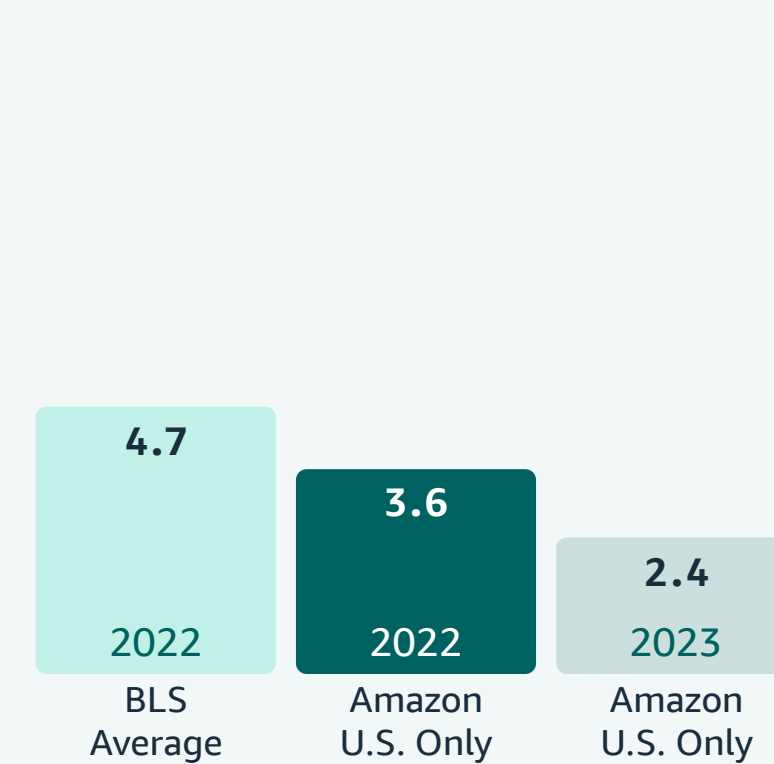
U.S. RIR Comparison Data for Courier and Express Delivery Services



U.S. LTIR Comparison Data for General Warehousing and Storage



U.S. LTIR Comparison Data for Courier and Express Delivery Services



Investing in Safety Improvements

Our progress is the result of investments of more than \$1 billion in safety initiatives, technologies, and programs since 2019. We have also continued to invest in robotics that help make our operations safer by reducing employees' workloads. One example is Proteus, our first autonomous mobile robot, which helps move heavy objects and carts. Another is Cardinal, a robotic arm that can quickly select a single package, read its label, and sort it. Both innovations help reduce repetitive tasks that can cause injuries such as MSDs and create a safer, more comfortable work environment for our employees year-round. We also plan for factors that can impact our employees' safety such as extreme weather. Our policies and procedures for addressing extreme heat and cold are robust and often exceed industry standards and guidelines.

We are proud of our advancements in automation, and we supplement this sophisticated technology with well-known forms of personal protection. For example, we require all employees, partners, and visitors to wear safety shoes at our facilities, as well as hard hats and impact-resistant gloves in specific jobs. Mandating composite-toe safety shoes at our facilities has helped reduce toe-related injuries by 85% since 2022. We provide employees with a \$110 voucher annually to acquire approved composite-toe shoes that fit their style and needs.

In addition, we have developed cutting-edge protective equipment for specific jobs. For example, we have developed intelligent safety vests for employees who maintain our robots. These vests use short-range radio frequencies to send signals to robots in real time. Robots in range automatically slow down, alter their route, and, at even closer range, stop entirely when they detect an employee is nearby. Once the employee is out of range, the robot resumes normal operation. As another example, we use sensor technology embedded in cold weather gear for employees who work in our freezers, allowing us to keep an eye on the amount of time they spend working in cooler temperatures. If an employee exceeds a specified amount of time, site personnel



receive a real-time alert to check on the employee and encourage them to take a break. Since introducing this technology in 2022, we have not had a single recordable injury related to overexposure in freezers.

Working with Our Operations Partners

Within our operations network, we work with partners around the world to deliver packages to our customers safely and efficiently. For example, we collaborate with small business owners called delivery service providers (DSPs) and with independent contractors called Amazon Flex delivery partners to deliver packages to customers' doorsteps. We also work with independent long-haul trucking companies to move products across our network.

Our transportation operations blend Amazon's advanced technology and safety initiatives to transport packages across our network of fulfillment centers, sort centers, and delivery stations, and to our customers. As our transportation operations have expanded, we have focused on making our docks and roads safer through innovative mobile and vehicle technology.

Freight Network

Our trucking fleet of company-owned and independent long-haul vehicles has advanced safety technology including front-collision warning, automatic emergency braking, stability control, side-object detection, adaptive cruise control, and speed limiters. Drivers in North America and Europe receive enhanced and up-to-date route forecasts to help them stay informed of inclement weather. The information can be accessed at any time, and forecasts are updated every 10 minutes to help them alter their route if needed. Drivers in North America also receive automated warnings if the technology detects their vehicle is stopped on a major road. The technology urges them to move to a safer location, if possible.

Delivery Network

While our partners report their own safety data to regulators, we are committed to helping them keep their employees safe. To that end, we offer them access to safety resources, training, and technologies. One example is third-party technology in delivery vans that measures and monitors unsafe driving behaviors such as speeding, distraction, and failure to wear a seat belt or obey a road sign. If the technology consistently detects these behaviors, drivers receive a notification when they stop their vehicle for their next delivery. The technology also sends related notifications to the drivers' employers—the DSPs—who are encouraged to coach the drivers. Since we have incorporated this technology into our branded vehicles, DSP drivers' collision rates have declined nearly 40%. From 2022 to 2023, its use has reduced unsafe DSP driving behaviors by 62% in the U.S.

As the weather gets warmer, preparedness and prevention are paramount to the health and safety of our operations teams and delivery partners. In advance of higher temperatures, we use best-in-class technology, amenities, and preventive measures to help keep drivers safe. For example, all Amazon-branded vehicles are equipped with air conditioning—a feature that is well above industry standards. We are also on track to retrofit our full fleet of cargo vans and electric delivery vehicles with insulation that reduces the internal temperature of the back of our vehicles by up to 15% by the end of 2024.

Increasingly, more package deliveries are made overnight, when traffic is lighter and drivers can more safely navigate across communities. In 2023, we created an in-app safety feature that allows drivers to message customers and remind them to turn on porch lights, secure pets, and clear the pathway of hazards. We have also piloted a safe and non-intrusive Dog-Distancing Device—a hand-held unit with ultrasonic sounds and strobe lights that drivers can use when they come in contact with an animal at a delivery location. The device is intended to distract aggressive dogs and help delivery drivers create space between themselves

and the animals when needed. Based on initial success, we have expanded the test to deploy the devices to the drivers who most frequently report encountering dogs during their deliveries.

Looking Forward

As we look to the future, we plan to continue investing heavily in employee health and safety across our operations. In 2024 alone, we plan to invest over \$750 million in technologies, resources, training, and programs to further our safety efforts. This includes more than \$400 million

for process engineering and retrofit initiatives that improve ergonomics, more than \$150 million in additional forklift safety controls, more than \$100 million for on-the-road safety enhancements, and more than \$80 million for truck yard safety improvements.

We made meaningful, measurable progress in 2023, and we are working hard to build on those achievements. While we're proud of the progress we have made, we know that there is more work to do on our journey to become the safest employer in the industries in which we operate, and this drives our commitment to continue improving safety for our employees, partners, and communities every day.



|| We offer our freight partners access to safety resources, training, and technologies to keep their employees safe.



Inclusive Experiences

Amazon creates inclusive technology and experiences that connect our diverse world. To guide our work, we set three companywide priorities. The first is to accelerate inclusive experiences globally, delivering initiatives for employees, customers, and communities around the world. The second is to build equity and inclusion into our talent strategies, with a greater focus on professional development, promotion, and retention. And the third is to advance diversity, equity, and inclusion (DEI) through technology.

Goal

Hire 100,000 U.S. military veterans and military spouses by July 2024

100.4K+

U.S. military veterans and military spouses hired by the end of January 2024



Goal

Conduct a racial equity audit to evaluate the impacts of our policies, programs, and practices on hourly operations employees

The audit is on track to be completed in 2024. We will review the results to inform our approach to operational policies and practices moving forward

Goal

Hire at least 5,000 refugees in the U.S. by the end of 2024

Nearly

18K

Refugees hired in the U.S. in 2023



Goal

Provide training for 10,000 Ukrainians globally through the AWS program ITSkills4U by 2024

Nearly

16.5K

Ukrainians received training by the end of 2023

Actions



6

Funds supported by Amazon Catalytic Capital, an initiative to invest in venture capital funds, accelerators, incubators, and venture studios that support Black, Latino, and other historically marginalized entrepreneurs

For the first time, people with hearing loss can stream sound from their Amazon Fire TV directly to their cochlear hearing implants via the open-source Audio Streaming for Hearing Aids protocol

3.5M+

Candidates used our online assessment to help identify the best position for them at Amazon, which improves equity and fairness in the hiring process

Awards

100/100

Score on the Human Rights Campaign's Corporate Equality Index for the sixth year in a row

100/100

Score on the Disability Equality Index for the second year in a row

#1

On the LinkedIn Top Companies U.S. Edition for the third year in a row



Members of our Indigenous at Amazon employee affinity group organized a powwow for associates and their families as an opportunity to learn from diverse communities and celebrate Native American Heritage Month.



Our Approach

We believe the best way to enable enduring inclusive experiences is through technology. We are evolving our approach to diversity, equity, and inclusion (DEI) work by shifting to a more scalable, long-term view through three new mental models. This new strategy enables us to accelerate progress on our priorities and create inclusive experiences at scale. The mental models that guide our work are:

- **Bolted-on** DEI programs, which drive inclusive and equitable outcomes within our business operations. An example of a bolted-on program is diversity training, which teaches our employees to take more intentionally inclusive actions at work.
- **Built-in** solutions, which are embedded into existing products to drive equitable experience and outcomes. For example, the captions and dialogue boosts in Prime Video are built-in solutions, which create a more accessible experience for customers who are hard of hearing.
- **Born-inclusive** solutions, which we define as building equity and inclusion into the architecture of a product or technology from the start. Examples of this include aspects of product design, such as accessibility.

More built-in and born-inclusive solutions will be required to accelerate progress on our priorities and create inclusive experiences at scale.

Learn more about Amazon’s approach to inclusion on our global [DEI website](#) ↗

Our Progress

As we deliver on our goals and make progress on our priority commitments, we continue reaching across cultures to connect our diverse world. We use our size, speed, and innovation to unite us in new and exciting ways, incorporating inclusion into everything we do.

Building Equity and Inclusion into Our Talent Management

We continue to diversify our workforce, inspect outcomes of our talent strategies, and experiment with initiatives that foster a diverse talent pipeline and improve the experience for employees—from being hired, to successful onboarding, to career development.

Building a Diverse Pipeline of Talent

Amazon’s ambition is for our employee population to represent the diverse communities we serve. As part of our efforts, we are building a strong pipeline of emerging diverse talent through educational programs.

In 2023, more than 300 employees volunteered through the Amazon Hardware, Engineering, Artificial Intelligence, and Devices (AHEAD) program, which gives primary and high school science, technology, engineering, and math (STEM) students hands-on learning through a custom curriculum enhanced by Amazon innovation. AHEAD helps historically underrepresented students and their families understand the pathways to high-tech fields by connecting them with Amazon employees who can share their own career journeys, guidance, and lessons learned.

We also welcomed 89 youth apprentices in 2023 to Amazon JumpStart, a program that employs emerging talent from

high schools in underserved communities. Seven different Amazon organizations—Devices & Services, Amazon Advertising, AWS, Worldwide Amazon Stores, Finance, Audio, and Twitch & Games—provided apprentices with on-the-job learning experiences.

Developing Diverse Talent

Throughout 2023, Black, Latino/e, and women senior leaders across Amazon partnered with our hiring teams to support the continuous expansion of our external talent networks by investing in conferences and organizations such as Afro Tech, Association of Latino Professionals for America (ALPFA), Black Men Xcel, Latinas in Tech, Society of Hispanic Professional Engineers (SHPE), and Women in Tech. Amazon senior leaders participated in roundtable discussions and network-building and affinity-based events, and they engaged in recruiting partnerships—all to increase brand awareness, engage diverse talent, and drive expanded interaction with prospective external employees and leaders.

As we build our talent communities, we aim to create space for our leaders and employees to come together and share experiences and learn about Amazon. For example, the Líderes sponsorship program equips participants with the skill to create a personalized career growth plan that builds on the unique needs of Latino/e talent and creates opportunities for participants to have sustained exposure to, and advocacy from, senior leaders.

Accelerating Inclusive Experiences Globally

We are delivering inclusive experiences for our employees, customers, and communities in over 60 countries around the world.

Our Employees, Customers, and Communities

Together at Amazon

We want all Amazon employees to feel that they belong. That is why we support programs that connect our employees globally through shared experiences. For example, Connect@Amazon is an employee engagement organization that hosts a variety of events for all full-time employees, such as career summits, volunteer activities, cultural gatherings, and professional networking. In 2023, Connect@Amazon hosted events across 33 chapters with 80,000 participants worldwide.

Employees can also participate in networking programs that organize learning opportunities, lead service projects, and host activities around cultural celebrations. In 2023, nearly 148,200 employees across more than 2,500 chapters in 60 countries participated in one or more of our affinity groups. AWS employees can take part in the Inclusive Ambassador program, which is dedicated to scaling an inclusive, fair, and respectful culture at AWS. More than 19,000 AWS employees across 52 chapters globally participated in the Inclusive Ambassador program in 2023.

Learn more about Amazon’s [affinity groups](#) ↗

LGBTQIA+ at Amazon

We are committed to supporting and creating inclusive experiences for LGBTQIA+ employees and communities around the globe. To advance development and recruitment efforts, Amazon strengthened key external LGBTQIA+ partnerships and fostered new ones. New partners in 2023 include the Ali Forney Center, Coqual, myGwork, and Rainbow Railroad.

We rolled out new, inclusive self-identification features for employees in 2023, allowing them to easily change their





Before coming to Amazon, veteran Sarah Rhoads (right), Vice President of Workplace Health and Safety, served as a U.S. Navy fighter pilot for 12 years.

name, marital status, sexual orientation, and gender identity and to share pronouns with colleagues through our internal human resources tool, A to Z.

People with Disabilities at Amazon

Amazon works to foster a workplace culture that is safe, welcoming, and inclusive to people with disabilities. We continue to provide resources to advance disability inclusion globally, such as our AmazonPwD affinity group and leadership tools to support employees with disabilities.

We are proud of the awards and recognitions we received in 2023 as an inclusive and accessible employer for people with disabilities. For the second year in a row, we earned a top score of 100 on the Disability Equality Index, which is a joint initiative of the American Association of People with Disabilities (AAPD), the nation's largest disability rights

organization, and Disability:IN, the leading global business disability inclusion network, which collectively advances the inclusion of people with disabilities.

In 2023, the UK government's Disability Confident employer program recognized Amazon as a Level 3 Leader, the highest level of accreditation. Developed by employers and organizations that represent people living with disabilities, this program encourages employers to think differently about disability and improve how they recruit, retain, and develop talent within their organizations. In India, we received the government's National Award for Empowerment of Persons with Disabilities. We are proud to receive these recognitions and continue to take measurable, concrete actions to strengthen disability inclusion and equality globally across our business.

Refugees and Humanitarian-Based Immigrants

As part of our efforts to be Earth's best employer, we welcome refugees and immigrants into our workforce and support their transition to their new communities. In 2022, we announced a goal to hire at least 5,000 refugees in the U.S. by the end of 2024—and we achieved this in 2023.

To support this hiring commitment, in 2023, we expanded our [Welcome Door](#) program, which offers resources and support for refugee and humanitarian-based immigrant employees in the U.S., to Germany, Poland, and Australia. Benefits vary by country (based on need) but may include financial reimbursement for immigration-related processes, free legal resources to help navigate immigration-related questions, the option to connect with immigration experts, access to upskilling opportunities, and customized mentorship.

Through the AWS program ITSkills4U, AWS provides virtual and in-person training to people who are interested in expanding their job opportunities in non-IT roles, switching to IT, or advancing their IT careers. By the end of 2023, ITSkills4U had provided training to nearly 16,500 Ukrainians globally, including refugees—exceeding AWS's goal of training 10,000 Ukrainians.

Veterans and Military Spouses at Amazon

We recognize the diverse backgrounds and experiences that veterans and military spouses bring to Amazon, as well as how they strengthen our workforce. Amazon partners across business lines to host hiring events, such as Amazon Military Hiring Days and virtual information sessions.

Amazon hired over 100,400 veterans and spouses through January 2024, achieving our goal to hire 100,000 veterans and spouses by July 2024. At the end of 2023, Amazon employed 98,500 veterans and military spouses, based on data from countries where employees can identify themselves as such. In addition, our veteran retention and promotion rates outpaced those of non-veterans.

Women at Amazon

Amazon celebrates women around the world and aims to inspire the next generation of women in tech. We advocate for gender diversity, equal opportunities, and inclusive spaces for women to thrive and feel comfortable at work and beyond.

In 2023, our Women at Amazon affinity group hosted development programs across Amazon, such as its Sponsorship and Promotion Accelerating Readiness and Know-How (SPARK) initiative. This program offers employees access to formal training and development, influence and advocacy, networking opportunities with senior leaders, and targeted, actionable coaching. In 2023, SPARK onboarded 300 participants across eight countries.

We also focus on investing in women as community members that contribute to industry innovation through initiatives that help close funding gaps. For example, in 2023, we held our first-ever [AWS Startups Women's Demo Week](#), a global event helping women-led startups connect with investors. Additionally, we are committed to supporting women climate tech entrepreneurs through The Climate Pledge Fund's Female Founder Initiative. In 2023, [the Female Founder Initiative](#) invested in [Genecis](#), a bioplastics company founded by scientist Luna Yu.

Learn more about how we are accelerating climate solutions from female founders through [The Climate Pledge Fund](#)

Indigenous Communities

Amazon is committed to supporting Indigenous leaders and creating solutions to help close educational and professional gaps among members of Indigenous communities. Our first-ever [Amazon online storefront in support of Indigenous communities](#) in Canada was launched in 2023. The storefront benefited 13 Indigenous artists/authors and three nonprofits that lead important work for Indigenous communities across Canada.



Amazon Representation by the Numbers*†

Men Women Other Gender

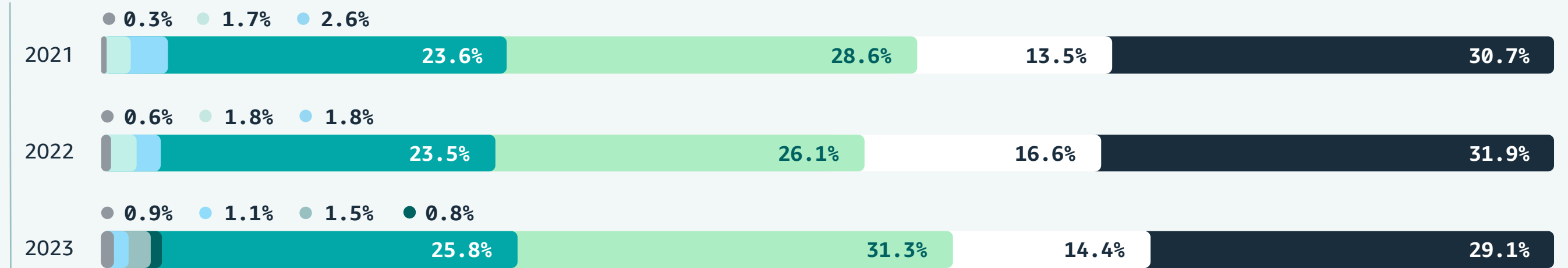
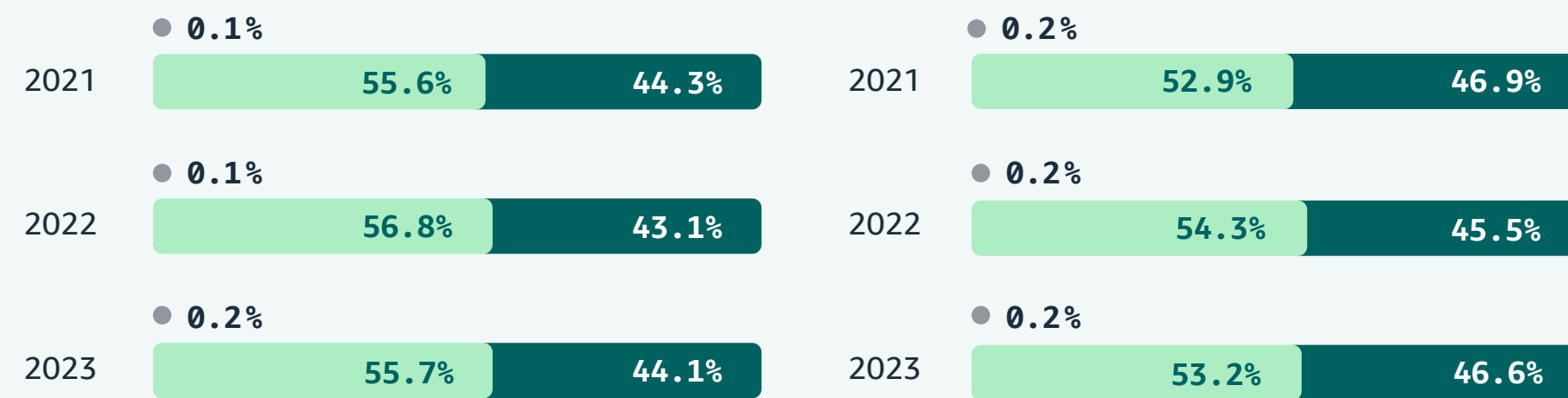
Other Native American and NHOPI+ (2021 and 2022) Multiracial Native American and Alaskan+ (2023)
 NHOPI+ (2023) Latino/e+ Black+ Asian+ White+

Gender—Global

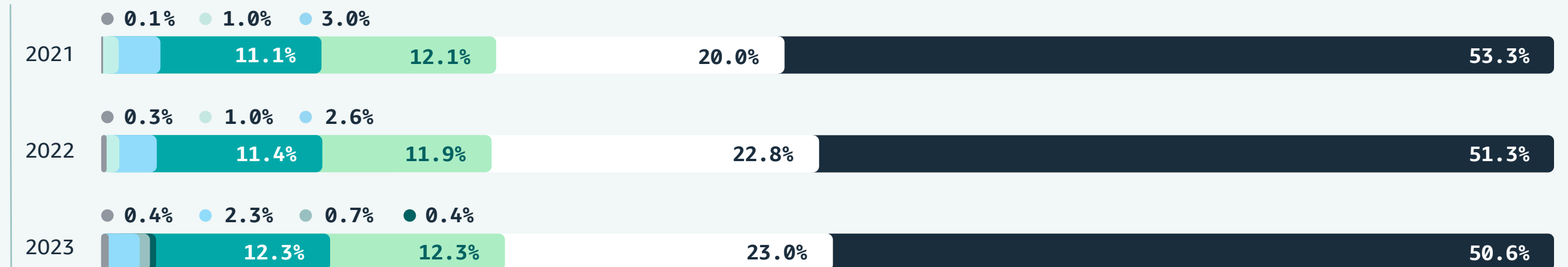
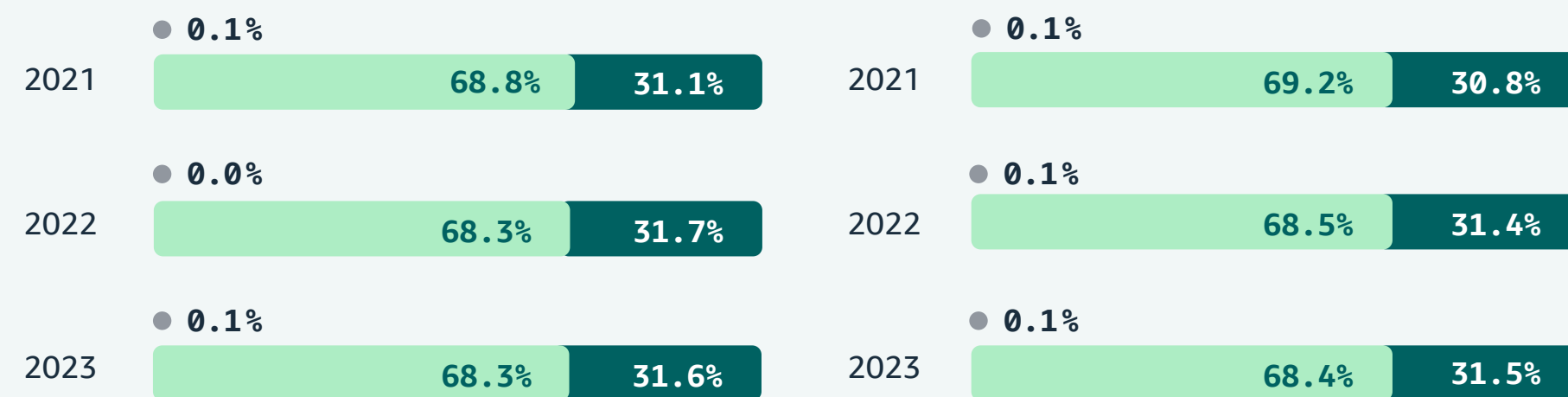
Gender—U.S.

U.S. Race/Ethnicity

Amazon Workforce (All Levels)

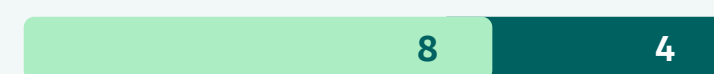


People Managers



Board Diversity

Gender



Race/Ethnicity



Learn more about our Board diversity data in our [Sustainability Reporting Framework Summary](#)

* In late 2021, we began allowing employees to identify as multiple specific races or ethnicities and updated our race/ethnicity reporting to begin counting multiracial employees under each separate group with which they identify. As such, category data may not add up to 100% exactly. We also count employees as they currently identify, both for race and ethnicity and for gender. Therefore, when an employee updates their identification, Amazon counts that employee according to their new identification at all times in their career at Amazon, which may change historic data and reporting. Data in this report reflects employee identification as of December 31, 2023.

† In 2023, Amazon updated reporting to include directly employed seasonal and temporary Field and Customer Support workers as well as all employees in the Audible, Twitch, and MGM subsidiaries. Additionally, reporting has been updated to reflect the distinct Native Hawaiian or Other Pacific Islander (NHOPI) category. Moving forward this group is reported separately from Native American/Alaskan.

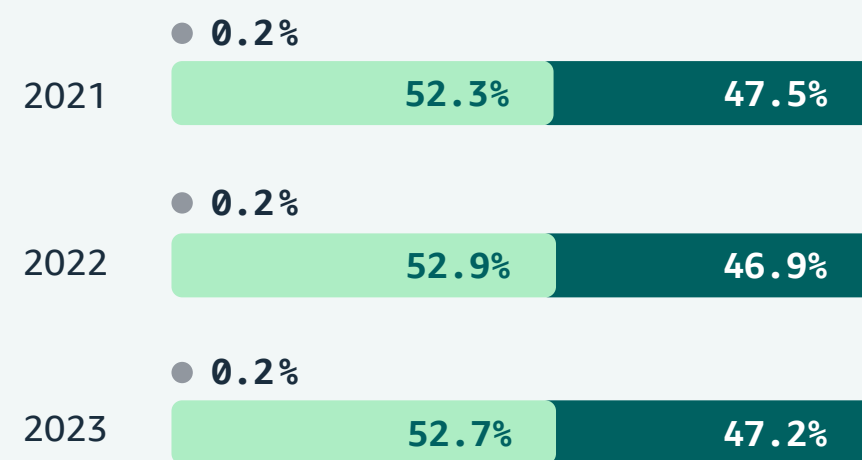


Amazon Representation by the Numbers

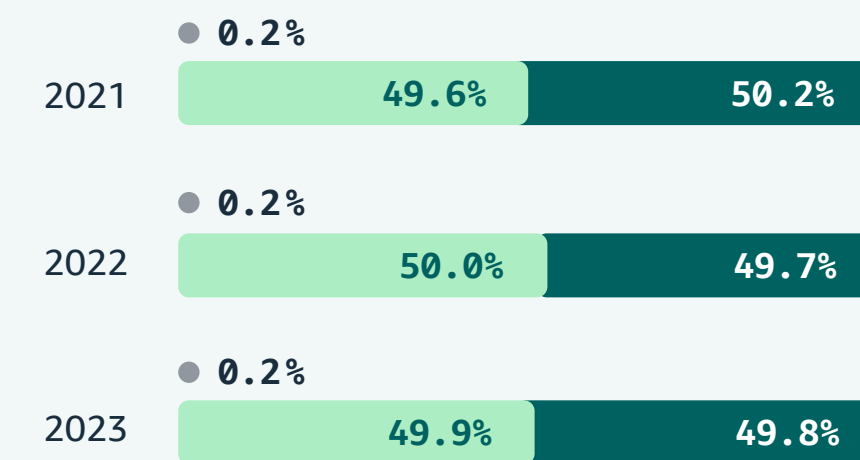
Men Women Other Gender

Gender—Global

Field and Customer Support Employees (L1–L3)



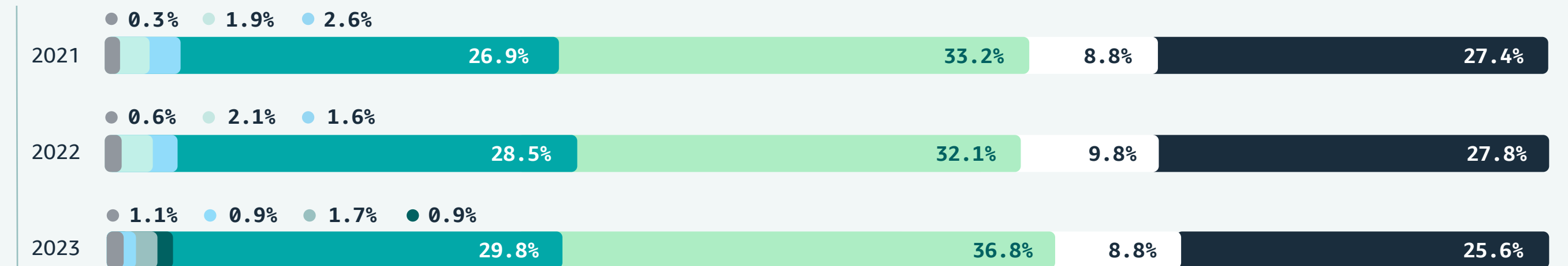
Gender—U.S.



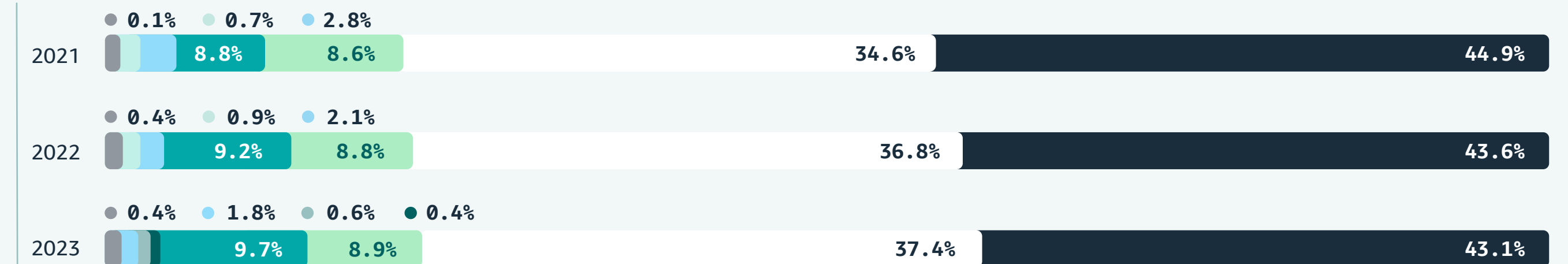
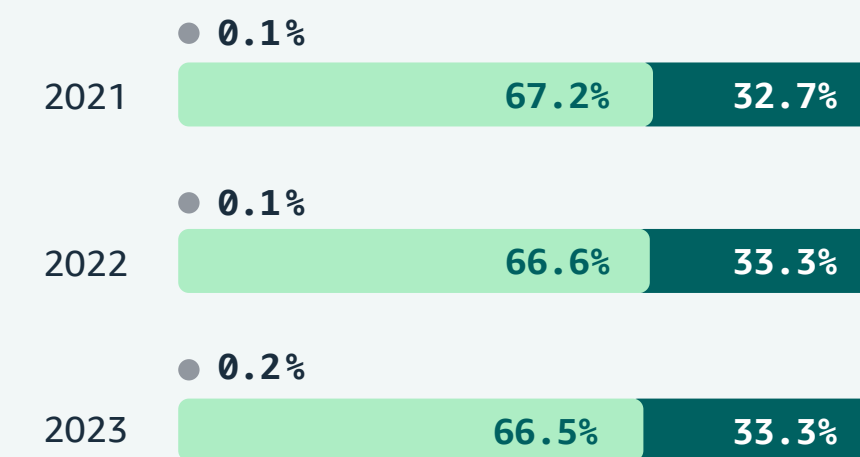
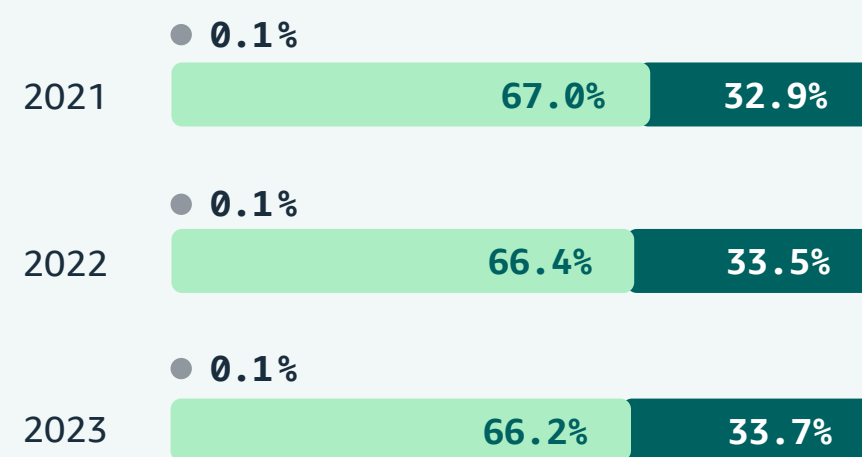
Other Native American and NHOPI+ (2021 and 2022) Multiracial Native American and Alaskan+ (2023)

NHOPI+ (2023) Latino/e+ Black+ Asian+ White+

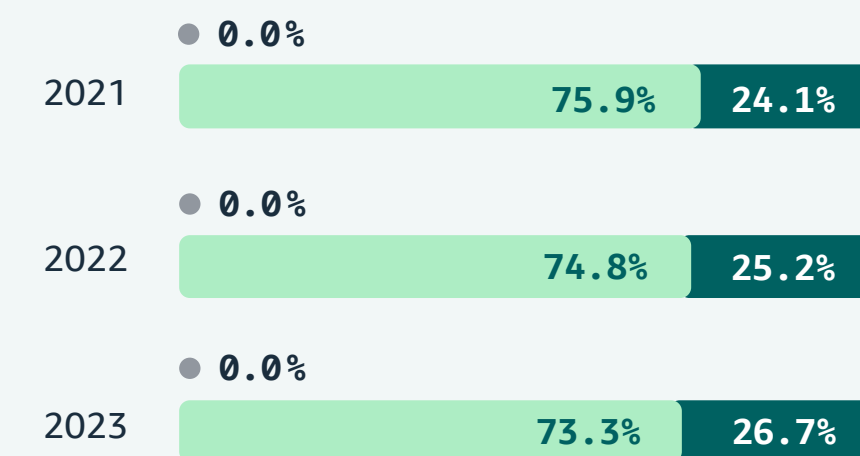
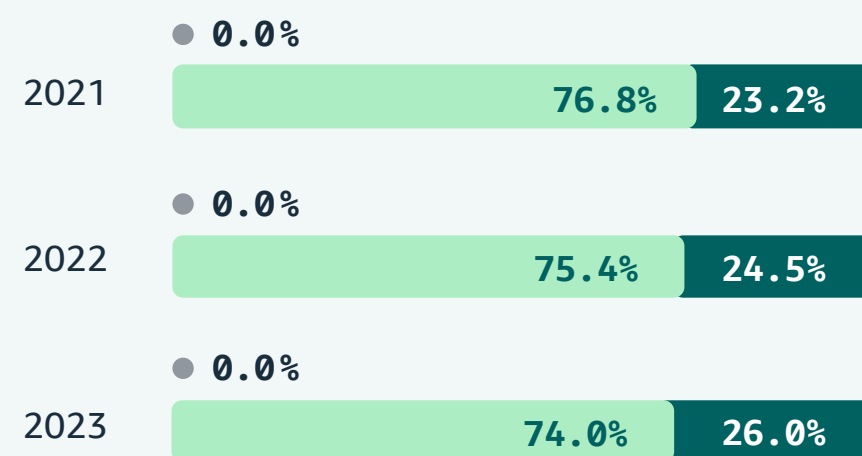
U.S. Race/Ethnicity



Corporate Employees (L4–L7)



Executives (L8+)



 Awards and Recognitions

A variety of organizations recognized Amazon as a great place to work in 2023. Some of the recognitions we received as a top employer include:

- **Human Rights Campaign's Corporate Equality Index:** 100/100 for the sixth year in a row
- **Disability Equality Index:** 100/100 in 2022 and 2023 and a Best Place to Work for Disability Inclusion for the sixth year in a row
- **LinkedIn Top Companies U.S. Edition:** No. 1 for the third year in a row
- **Business Disability Forum's Disability Smart Technology Award**
- **The Bell Seal for Workplace Mental Health:** Platinum
- **Purple Certification from the Purple Method:** Received top score of 100 on our corporate approach to preventing workplace harassment



In the U.S., we signed our first memorandum of understanding (MOU) with a tribal nation in 2023, formalizing our collaboration with the Confederated Tribes of the Umatilla Indian Reservation (CTUIR). Under the MOU, Amazon will consult with the CTUIR, review their input, and implement risk mitigation processes for projects that should consider natural resources, areas of traditional or current use, and cultural or historic sites.

Supporting Black, Latino, and Diverse Businesses

Amazon is committed to supporting Black, Latino, and diverse businesses and wants to see them succeed. We deliver and invest in tools and resources that empower business owners to grow and, in turn, create positive impact in their local communities.

In 2023, as part of our efforts to boost and support early-stage, Black, Latino, and other underrepresented entrepreneurs, Amazon Catalytic Capital invested in six new venture capital funds. Catalytic Capital is a \$150 million fund committed to investing in venture capital funds, accelerators, incubators, and venture studios that support Black, Latino, and other historically underrepresented entrepreneurs. These new investments helped us meet our goal to support 10 funds and accelerators and, in turn, fund 200 companies by the end of 2023.

[Learn more about Catalytic Capital](#)

We are also creating opportunities for alignment with the greater community through programs such as our [Black Business Accelerator](#) (BBA), which was launched in 2021 as our first growth accelerator. Backed by a \$150 million commitment from Amazon over four years, the BBA is dedicated to assisting Black-owned businesses in building sustainable growth on Amazon's store. It provides a range of comprehensive educational, discoverability, and community resources for certified Black-owned U.S. businesses with professional seller accounts at our store. In 2023, the BBA provided 274 businesses with account management and financial assistance to accelerate their journey to launch and scale their businesses. Through the BBA, Amazon has

increased the unique selection of products we bring to our customers while creating a network with the Black business community to better understand and support their entrepreneurial endeavors.

Another example is the AWS Impact Accelerator, a \$30 million fund that provides Black, Latino/e, women, and LGBTQIA+ founders with equitable access to funds, training, mentorship, tools, and resources. In 2023, 20 companies participated in the AWS Impact Accelerator Latino Founders Cohort, giving pre-seed Latino/e founders the support they need to accelerate their businesses.

[Learn more about our efforts to support diverse businesses](#)

Advancing DEI through Technology

Amazon is creating inclusive technology that connects our diverse world, disrupting the status quo of how we learn, communicate, and live.

Innovating for Accessibility

In everything we do, we work backward from our customers. This includes offering more devices and services with built-in accessibility solutions to better support our customers with disabilities. Within Amazon's devices and entertainment businesses, we continue to build and expand accessibility features in our products, from Alexa and Fire TV to Audible and Prime Video. For example, we offer Alexa Voice Service (AVS) to commercial device makers such as original design manufacturers and systems integrators, who use it to build Alexa into smart speakers, headphones, PCs, TVs, vehicles, and smart home products. We also launched Voice Access, a new accessibility feature for our Fire HD 10, in October 2023. Voice Access allows customers who can speak English, but cannot use their hands to touch the screen, to control their Fire tablet with their voice.

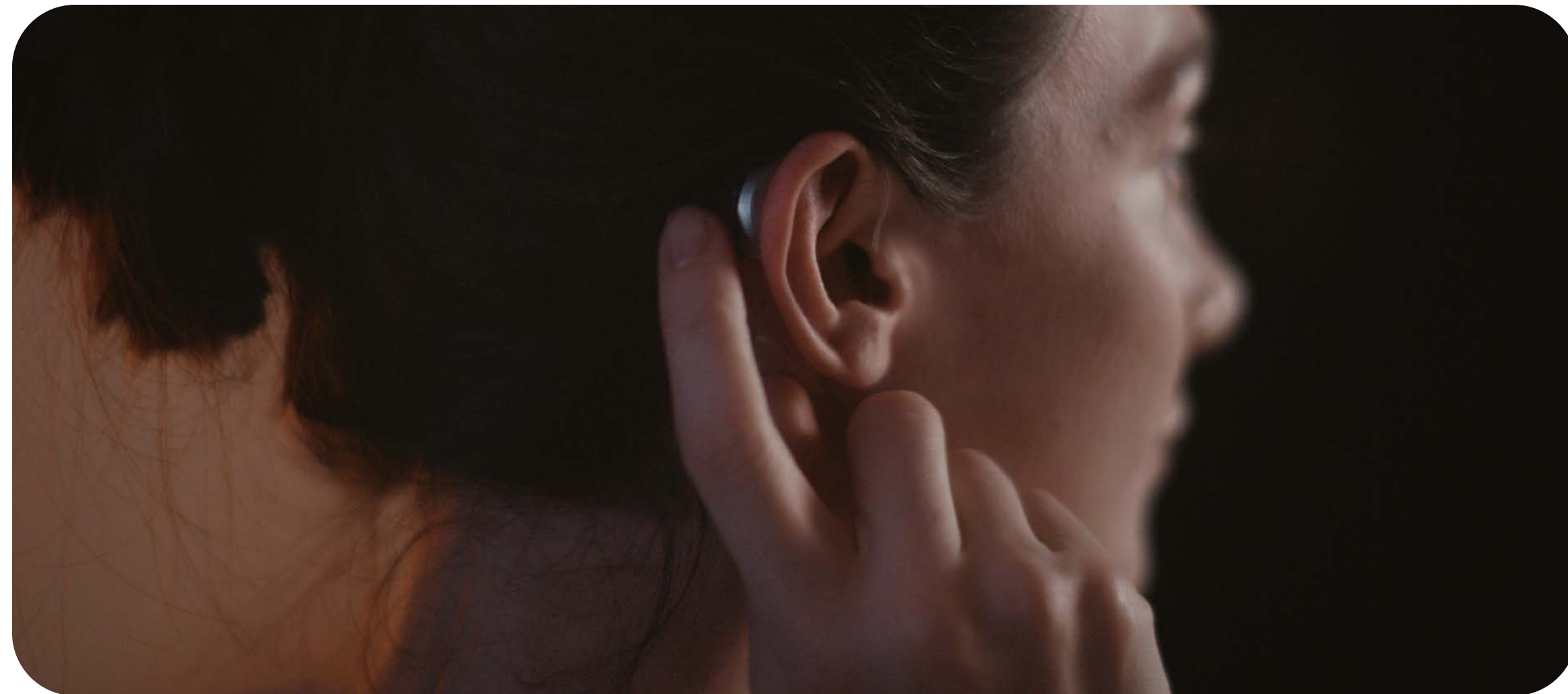


Accelerating Equitable Health Research

Many communities are currently underrepresented in medical research. As a result, less is known about their health and ways to provide them with the best care. In September 2023, we began a partnership with the National Institutes of Health (NIH) to raise awareness of their All of Us Research Program, an effort to collect and study data from people living in the U.S. to build one of the most diverse health databases in history. This initiative focuses on accelerating precision medicine research, increasing health equity, and providing DNA results to participants. In support of this work, All of Us works closely with organizations with deep ties to communities that have been historically underrepresented in biomedical research.

We were NIH's first corporate health equity partner. In 2023, more than 1,300 Amazon employees have either visited the All of Us website or interacted directly with All of Us staff to learn more about the program, and more than 200 Amazon employees have participated in this landmark study. Of the participants who joined a kickoff event at our second corporate headquarters in Arlington, Virginia, 79% are from communities that have been historically underrepresented in biomedical research.





In 2023, Amazon Fire TV expanded its audio streaming capabilities to include cochlear implants.

In 2023, Amazon Fire TV expanded its audio streaming capabilities for hearing aids and devices to include cochlear implants. For the first time, people with hearing loss can stream sound directly from their Amazon smart TVs to their cochlear hearing implants via the open-source Audio Streaming for Hearing Aids protocol. This latest innovation was built in partnership with customers and members of the AmazonPwD employee affinity group who use cochlear implants.

We have the world's largest catalog of movies with additional spoken audio, which describes what is happening on screen, making it easier for our customers who identify as blind or visually impaired to enjoy their favorite Prime content. By the end of 2023, Prime users had access to over 5,750 audio-described movies and nearly 1,300 audio-described television series.

In 2023, Amazon Music and Amazon MGM Studios partnered to create more inclusive experiences for customers who

identify as deaf, disabled, or neurodiverse. For example, the teams introduced American Sign Language (ASL) interpreters from marginalized communities on Amazon Music Live concerts after Thursday Night Football, creating a more inclusive experience for performing artists, interpreters, and customers.

External Engagement and Partnerships

Business Disability Forum, a UK-based disability inclusion organization, honored Amazon with the Disability Smart Technology Award in 2023. This award recognizes our work to develop technology that improves the lives and experiences of people living with disabilities. The judges noted the breadth of our innovation and global reach, as well as our use of employee and customer feedback to inform the design, development, and delivery of our products and services.

To further bridge the digital divide for people with disabilities, in November 2023, we announced a partnership with The Arc, an organization serving people with intellectual and developmental disabilities. As part of this partnership, we are donating 1,505 Echo Show and Fire tablet devices to 39 chapters of The Arc across the U.S.

| [Learn more](#) about Amazon's [accessibility innovations](#)

STEM Educational Opportunities

Amazon is working to build a pipeline of Indigenous STEM talent. In 2023, we sponsored Indigenous in AI's annual [Lakota AI Code Camp](#). This three-week camp introduces Lakota youth to coding and combines Lakota culture with AI to foster the preservation and reinvigoration of the Lakota language.

We also awarded scholarships totaling \$500,000 to 125 students through AmazonNext, a college partnership program supporting undergraduate students in pursuing STEM majors. Additionally, our Amazon Future Engineer program continues to provide access to childhood-to-career computer science education, focusing on students from underrepresented and historically disenfranchised people and communities.

| [Learn more](#) about our [Amazon Future Engineer program](#)

Innovating for Customer Fulfillment and Transportation Employees

Amazon is developing new technologies that help our customer fulfillment and transportation employees connect, learn, and communicate at their place of work. For example, in 2023, more than 450,000 employees in our customer fulfillment centers used SayHi, a tool to facilitate communication among colleagues facing language barriers. Through SayHi, employees can access 72 languages and 114 dialects to eliminate linguistic obstacles and engage in multilingual conversations without the need for dedicated

translators. Additionally, more than 150,000 employees across our fulfillment centers leveraged the Encompass tool, a DEI resource hub that provides employees with information on affinity groups, upcoming cultural events, and more.

Looking Forward

The opportunity ahead of us to incorporate inclusion into everything we do at Amazon is greater than ever. The industry is at a unique inflection point where technology is rapidly progressing and the landscape for how we work is changing. In order to accelerate our DEI priorities, we are implementing born-inclusive standards across everything we do—equity and inclusion are being built into the architecture of our products, talent strategies, and initiatives for employees, customers, and communities around the globe. Amazon has changed the world through our innovations, and we're committed to delivering inclusive experiences through technology in the same way: by disrupting the status quo and uniting us in new and exciting ways.



Appendix

In This Section

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- 95 Endnotes
- 96 Assurance Statements
- 97 Disclaimer and Forward-Looking Statements



Sustainability Reporting Topic Assessment

Amazon's business spans many industries, including but not limited to e-commerce, cloud computing, consumer goods, food and beverage, and logistics. This broad scope means we identify environmental, social, and governance topics and focus our efforts by assessing our business holistically. In 2022, Amazon conducted a comprehensive analysis to inform the sustainability topics that are relevant to our reporting.

To guide our analysis, we leveraged Datamaran, a business intelligence platform, referencing data-driven insights from leading reporting frameworks, including the Sustainability Accounting Standards Board (SASB), the Task Force on Climate-related Financial Disclosures (TCFD), and the Global Reporting Initiative (GRI). The platform also analyzed the regulatory landscape, media, and company reports to inform the topics. We also consulted with key stakeholders, including internal decision-makers, employees, partner organizations, nongovernmental organizations, and academics, to capture their input and broad range of perspectives.

As a result, we have included a number of topics in our reporting, listed below in alphabetical order. We view these topics as interconnected and know our progress in one area can often help solve for challenges in another.

- Business Ethics
- Carbon
- Community Impact
- Customer Practices
- Data Privacy and Cybersecurity
- Diversity, Equity, and Inclusion
- Governance
- Health and Safety
- Human Capital
- Human Rights
- Packaging
- Public Policy and Lobbying
- Renewable Energy
- Responsible Supply Chain and Sourcing
- Waste and Circularity
- Water



Endnotes

Environment

- 1 Supply chains focus on sourcing materials and delivering goods to customers. Value chains include upstream supply chain, as well as downstream delivery to customers, customer use of products, and end-of-life of products.
- 2 Amazon's carbon footprint is reported in metric tons of carbon dioxide equivalent (MTCO₂e), where each metric ton of CO₂ emissions represents the same global warming potential as one metric ton of another greenhouse gas. Learn more in our [Carbon Methodology](#).
- 3 Carbon intensity at Amazon is measured as grams of CO₂e per dollar of gross merchandise sales (g CO₂e/\$GMS).
- 4 In 2023, we included new programs in the scope for this metric. With inclusion of the new programs, the amount of packaging we avoided has increased. We previously reported saving more than 2 million metric tons from 2015 through 2022, but with the inclusion of the additional programs, actual savings was more than 3 million metric tons in 2022 and more than 4 million in 2023.
- 5 BloombergNEF.
- 6 Renewable natural gas (RNG) is created by decomposing organic waste materials anaerobically (without oxygen).
- 7 Electric vehicles include vans, four-wheel vehicles, three-wheel vehicles, two-wheel e-bikes, and e-mopeds.
- 8 CarbonCure is a commercialized portfolio of carbon removal technologies that consume carbon dioxide (CO₂) in concrete during production, permanently sequestering CO₂ and enabling the reduction of cement content in mixes without impacting concrete performance.
- 9 Carbon credits are permits that are purchased to offset the emissions of a certain amount of CO₂ or other GHGs.
- 10 As detailed in our [Renewable Energy Methodology](#), to calculate the percentage of renewable energy powering Amazon's operations, we evaluate both the amount of renewable energy from Amazon's projects and the renewable energy in the grid. This total renewable energy is then compared to Amazon's total energy use.
- 11 The 17 U.S. states in question are Arizona, Arkansas, California, Georgia, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Ohio, Oklahoma, Oregon, Pennsylvania, Texas, and Virginia.
- 12 In 2023, we included new programs in the scope for this metric. With inclusion of the new programs, the amount of packaging we avoided has increased. We previously reported saving more than 2 million metric tons from 2015 through 2022, but with the inclusion of the additional programs, actual savings was more than 3 million metric tons in 2022 and more than 4 million in 2023.
- 13 Global includes the following countries and regions: the U.S., Canada, the UK, Europe, India, Japan, and emerging countries.
- 14 Ships in Product Packaging was formerly called Ships in Own Container.
- 15 Thin-film single-use plastic packaging are materials with a thickness of less than 50 microns.
- 16 Amazon's 2022 total plastic packaging use has been updated to 86,055 metric tons; 139 metric tons (or 0.2%) higher than last year's report to align with our 2023 footprint methodology.

- 17 Rest of World includes the following countries: Australia, Brazil, Egypt, Mexico, Saudi Arabia, Singapore, and the United Arab Emirates.
- 18 BOTTLE: Bio-Optimized Technologies to keep Thermoplastics out of Landfills and the Environment.
- 19 [Circularity Gap Report 2024](#).
- 20 Goal scope covers food that is considered inventory. It is measured with a food waste intensity metric that calculates the amount of food waste generated as a percentage of total food handled within Amazon.
- 21 UL's Zero Waste to Landfill methodology defines Silver level sites as those diverting 90%–94% and Gold level sites as those diverting 95%–99% of waste.
- 22 For example, some regulated waste streams, like hazardous waste or medical waste, may be ineligible for recovery pathways for health and safety reasons.
- 23 [UN Water](#).
- 24 Being water positive means AWS will return more water to communities and the environment than its direct operations use. AWS measures progress annually against this goal by adding together reused water and water from replenishment projects and dividing that number by total water withdrawal minus water from sustainable sources. As we improve water efficiency, we also reduce how much incoming water we use.
- 25 [Amazon regions and availability zones](#).

Value Chain

- 26 The concept of salience uses the lens of risk to people, not to the business, as the starting point, while recognizing that where risks to people's human rights are greatest, there is often strong convergence with risks to the business. [UN Guiding Principles Reporting Framework](#).
- 27 Twitch is an Amazon subsidiary that provides interactive livestreaming services for content spanning gaming and entertainment. To learn more about the human rights assessment conducted, please refer to our [2022 Sustainability Report](#).
- 28 We update our Supply Chain Standards at least every three years, working with external stakeholders to align our requirements with current best practices and regulatory standards. Please refer to our most recent update as mentioned in our [2022 Sustainability Report](#).
- 29 Supplier assessments are conducted for businesses manufacturing Amazon-branded products or products under Amazon's patent or trademark.
- 30 A switch is defined as a customer who purchases a product recognized by certifications in the Climate Pledge Friendly program and has purchased only products not recognized by Climate Pledge Friendly within the past two years in the same product category.
- 31 Diverse-owned businesses are those whose majority owners (51% or more) are ethnic minorities, women, individuals living with disabilities, veterans, or those who identify as LGBTQIA+.
- 32 Whole Foods Market refers to Whole Foods Market in the U.S., unless stated otherwise.

- 33 A diverse supplier is a business at least 51% owned and operated by an individual or group that is part of a traditionally underrepresented or underserved group. Certified means the supplier holds a valid certificate from one of five major U.S. supplier diversity agencies: National Minority Supplier Development Council or regional affiliate, Women's Business Enterprise National Council or regional affiliate, National LGBT Chamber of Commerce, National Veteran Business Development Council, or Disability:IN. Certified Tier 1 diverse suppliers are companies that Amazon pays directly for goods and services and are certified by an Amazon-recognized agency.
- 34 The total spend comprises the direct, indirect, and induced spend. Direct spend denotes spend at small and diverse suppliers. Indirect impact denotes spend to the businesses that suppliers (and their suppliers) purchase goods and services from. Induced spend denotes spend generated in communities of suppliers' employees. This measures the purchases through these employees and jobs supported through these purchases.
- 35 Certified Tier 2 diverse businesses are businesses that provide goods and services to Amazon's Tier 1 suppliers.
- 36 Amazon utilized a third-party provider to evaluate and report our 2023 economic impact, which included estimates of our engagement with diverse-owned businesses.
- 37 Affordable multifamily housing data is calculated through March 2024, as this analysis is not done on an annual basis.

People

- 38 All these numbers and other comparisons are based on the rates Amazon has reported to applicable regulators or are otherwise derived from the same tracking systems used for that reporting.
- 39 Global operations in reference to health and safety rates means fulfillment (Amazon Robotics sortable, traditional non-sort, in-bound cross dock), transportation (sort center, delivery station, and air), and Amazon Robotics operations facilities.
- 40 In the General Warehousing and Storage industry, Amazon benchmarks itself against the industry average for employers with >1,000 employees because the average number of employees at sites reporting into that code is more than 1,400.
- 41 In the Courier and Express Delivery Services industry, Amazon benchmarks itself against the industry average for employers with 250–999 employees because the average number of employees at sites reporting into that code is more than 290.



Assurance Statements

Amazon assures carbon and renewable energy data. Please see our 2023 assurance statements at the links below:

- [Amazon Renewable Energy Assurance](#) ↓
- [Devices Renewable Energy Assurance](#) ↓
- [Amazon Scopes 1 and 2 Assurance](#) ↓
- [Amazon Scope 3 Assurance](#) ↓



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